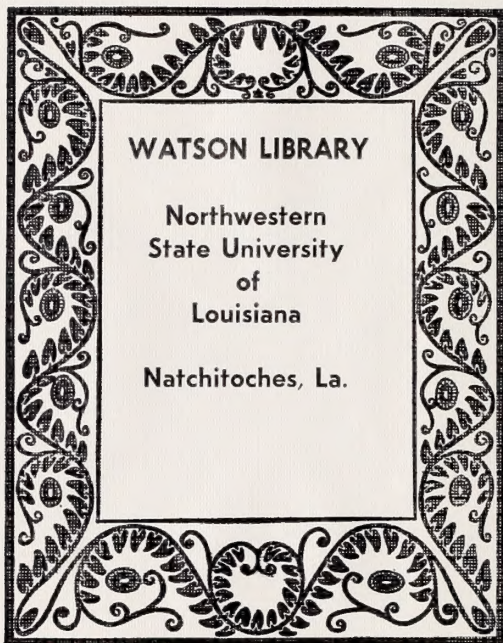


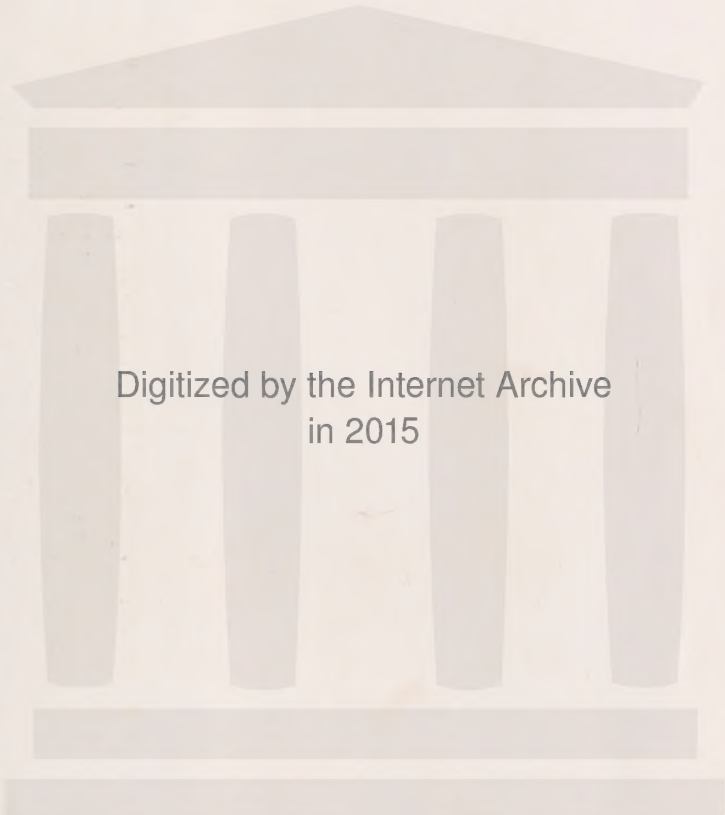
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NORTHWESTERN STATE UNIVERSITY
LOUISIANA

BULLETIN

Volume 59

1970-71

Numbers 1, 3 and 5 not published

STUDENT
HANDBOOK

NOTES ON THE HISTORY OF THE

SUBJECT

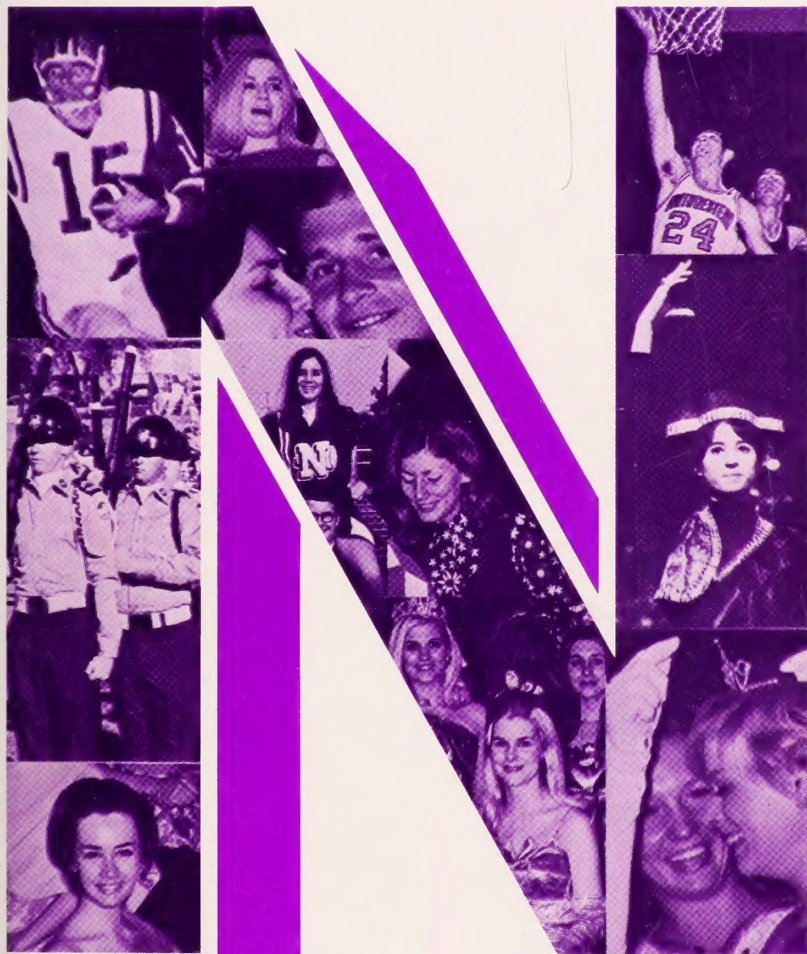
Volume 29

1952-53

Numbers 1, 2 and 3 not published

NORTHWESTERN STATE UNIVERSITY

**NATCHITOCHES,
LOUISIANA**



**STUDENT
HANDBOOK
1970-71**

THE UNIVERSITY CALENDAR

FALL SEMESTER 1970-71 (CLASSES BEGIN SEPTEMBER 11)

Registration	September 8-10
Classes Begin	September 11
Thanksgiving Holidays	Noon, Wednesday, November 25 to 8 a.m. Monday, November 30
Christmas Holidays	Noon, Saturday December 19 to 8 a.m. Monday, January 4
Final Exams	Monday-Saturday, January 11-16
Commencement	8 p.m. Thursday, January 21
Semester Ends	Thursday, January 21

SPRING SEMESTER (CLASSES BEGIN JANUARY 29, 1971)

Registration	January 26-28
Classes Begin	January 29
Mardi Gras Holidays	Noon Saturday, February 20 to 8 a.m. Thursday, February 25
Easter Holidays	8 a.m. Wednesday, April 7 to 8 a.m. Wednesday, April 14
Final Exams	Monday-Saturday, May 17-22
Commencement	8 p.m. Thursday, May 27
Semester Ends	Thursday, May 27

SUMMER SESSION 1971 (CLASSES BEGIN JUNE 3, 1971)

Registration	June 1-2
Classes Begin	June 3
Holiday	Monday July 5
Final Exams	Monday-Wednesday, July 26-28
Commencement	8 p.m. Friday, July 30
Session Ends	Friday, July 30

DEMON HANDBOOK



1970

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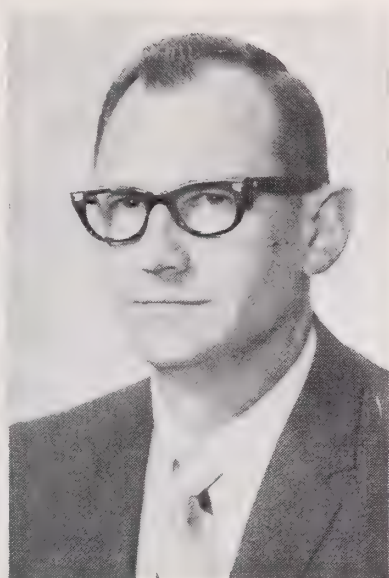
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THE PRESIDENT

A MESSAGE FROM THE PRESIDENT



We at Northwestern State University extend a warm welcome to students returning to the campus this fall and a special welcome to the young men and women who are entering Northwestern for the first time.

The faculty and staff at Northwestern are proud that you have chosen to continue your education with us, and we shall seek to provide the experiences which will afford the greatest opportunity for growth and development.

All of us sincerely hope that you will come to know the university as your home-away-from-home, and we are willing to do everything possible to make your stay on our campus an enjoyable one.

Northwestern is Louisiana's oldest state university, and it has a long-standing reputation for academic excellence. We are proud of that reputation, and we are also proud of our tradition as "The Friendliest University in the South". We urge you to join with us in continuing this tradition.

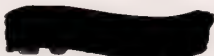
Our hope is that your experience here will be rewarding and enriching not only to each of you personally but to the whole of our society.

If there is any way that I can assist you during your career at Northwestern, please feel free to call on me.

Sincerely,

Arnold R. Kilpatrick

Dr. Arnold R. Kilpatrick
President





HANG 'EM HIGH DEMON
BIG DEMONS

XA!



GO WILD

DELTA ZETA WANTS VICTORY
Δ SAYS MC COME

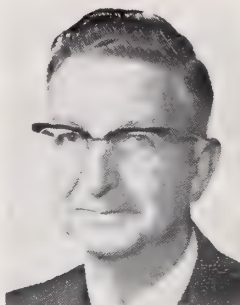
HELL BOYS

10

ACADEMIC PERSONNEL



DR. CHARLES F. THOMAS
*Vice President of
Academic Affairs*



DR. LEO T. ALLBRITTEN
*Dean of
Graduate School*



DR. T. P. SOUTHERLIN
Dean of Education



DR. DAVID TOWNSEND
Dean of Business



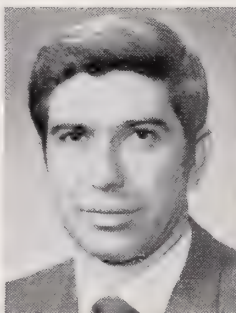
DR. RENE BIENVENU
*Dean of Science
and Technology*



DR. PEGGY LEDBETTER
Dean of Nursing



DR. GEORGE STOKES
Dean of Liberal Arts



DR. BENNIE BARRON
Dean of Basic Studies



WALTER LEDET
Registrar

STUDENT PERSONNEL ADMINISTRATORS



DUELY FULTON
Dean of Students



FRED BOSARGE
*Dean of Men
and Director of Housing*



MRS. LUCILE HENDRICK
Dean of Women



ROBERT WILSON
Student Union Director



DR. TANDY MCELWEE
*Director Counseling,
Testing*



C. L. STARNES
Assistant Dean of Men



JAMES K. LEE
Campus Security Guard



MRS. MAMIE TRUNZLER
Counselor for Women



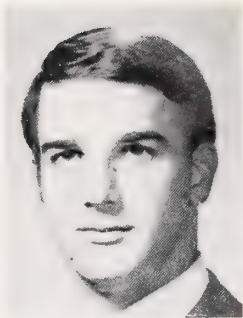
MISS AGATHA NEWITT
Counselor for Women

STUDENT GOVERNMENT ASSOCIATION

DAVID PRECHT
President



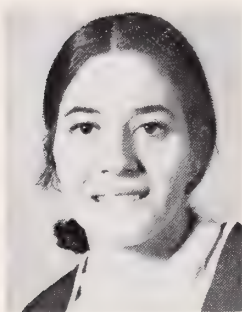
JACK HOFFSTADT
Vice-President



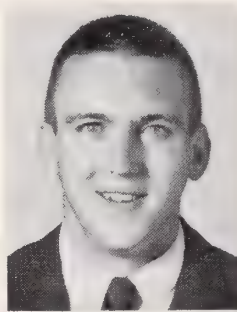
BILL BASKERVILLE
Vice-President for Men



LYNN KILLEN
Vice-President for Women



SUSAN NICKERSON
Secretary



BILL THRASH
Treasurer



JOHNNY HEBERT
Parliamentarian

SENIOR CLASS OFFICERS



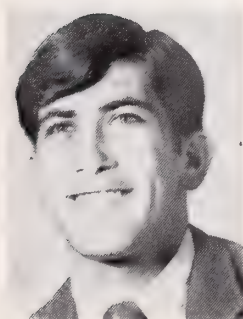
BEN RUSHING
President



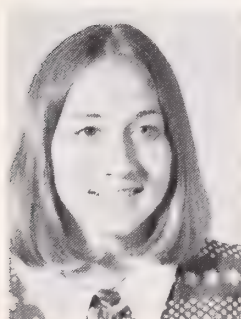
JIM McDOWELL
Vice-President



DEBBIE WING
Secretary-Treasurer



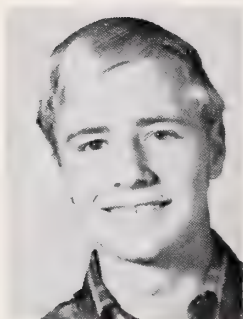
RONNIE MORROW
Men's Representative



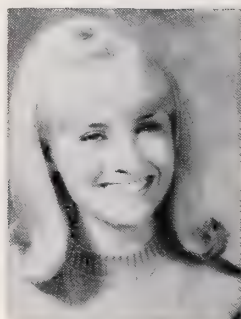
MARY SMITH
Women's Representative

JUNIOR CLASS OFFICERS

LINDA SEPULVADO
President



MIKE MCCONNELL
Vice-President



DEBBIE SINGLETARY
Secretary-Treasurer

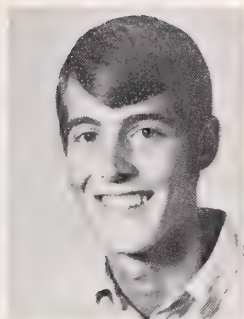


LYNN ROLLINS
Men's Representative



CHARLOTTE BROUSSARD
Women's Representative

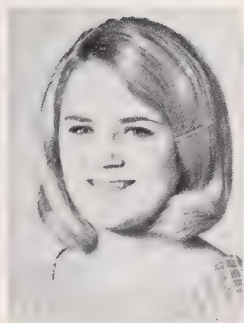
SOPHOMORE CLASS OFFICERS



GREG O'QUINN
President



BOBBY HARLING
Vice-President



JO PEASE
Secretary-Treasurer



JEANNE HEBERT
Women's Representative

STUDENT UNION GOVERNING BOARD



VAL MARMILLION
President



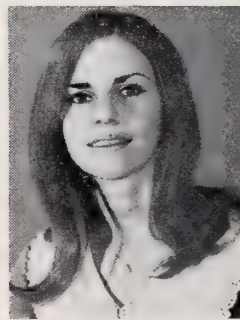
GARLAND RIDDLE
Vice-President for Programs



RHONDA COLEMAN
Vice-President for Entertainment



DEBBIE WALLACE
Secretary



MARGARET KOVAR
Treasurer



THE ACTIVITIES

tions, Publications, Tradition

ACTIVITIES

SCOPE OF ACTIVITIES

An education at NSU means more than attending classes. Other tools are essential for a well-rounded education. A wide range of extra-curricular activities are offered to the students. These activities are available to satisfy student's needs. Extra-curricular activities are not separate and apart from the academic; they serve to increase the total academic experience.

WHAT'S HAPPENING AT NSU?

Student's needs and desires are basis for the types of activity presented at NSU. Events involving the entire student body include: concerts, forums, art exhibits, dances, and inter-collegiate sports. Students have an opportunity to see national figures in formal presentations and informal discussions with students.

The best names in popular and classical entertainment are made available.

Behind these and many other activities are responsible students who participate in and plan their own functions.

ORGANIZATIONS ARE RESPONSIBLE FOR ACTIVITIES

More than 70 chartered student groups are available to students. These give the students ample opportunity to become involved in planning activities, making new friends, developing leadership qualities, and receiving recognition for a job well done. Included are organizations which govern living groups, campus-wide student government organizations, academic college student organizations, religious groups and recreational groups.

Students staff the campus publications including the campus newspaper, **The Current Sauce**, and the yearbook, the **Potpourri**. All organizations offer at least three levels of involvement: Participating member, committee member or head, or officers. A complete list of all organizations appears in the Handbook.



FACILITIES FOR ACTIVITIES

The men's and women's physical educational buildings offer programs which provide competition among student groups. Some of the activities provided are basketball, handball, paddleball, badminton, weight-lifting and gymnastics. The Natatorium provides swimming and other water sports. Outdoor tennis courts are also provided.

The Student Union, through the Student Union Governing Board offers a variety of programs for the entire University community. The Union houses a restaurant, bowling alley, table tennis, meeting rooms, ballroom, barbershop and beauty shop and bookstore.

Campus Religion Centers are supported by individual denominational churches and provide professionally directed activities. Greek houses and residence halls are other centers for activity programs which are of a social and educational nature.

Other centers of activity include Demon Stadium for football and track, Prather Coliseum for basketball and concerts, and the Fine Arts Auditorium for plays and concerts.

STUDENT ORGANIZATIONS

GOVERNMENTAL

Associated Men Students

President: Bill Baskerville

Advisor: Fred Bosarge, Room 307 Student Union

As the largest men's organization at Northwestern, the AMS has the objectives of promoting the general welfare of men students; serving as a means of communication between the men students and the administration, particularly as regards dormitory affairs; and stimulating good citizenship and responsibility among men students. All undergraduate men students are members of the AMS. Residents of each men's dormitory elect representatives who serve on a council within their dormitory, and who also represent their dormitory in the AMS Legislative Branch. The Legislative Branch deals with male student affairs on a college-wide basis. Off-campus men are represented on the Legislative Branch by male students chosen at large from the off-campus enrollment.

Associated Women Students

President: Lynn Killen

Sponsor: Mrs. Lucile Hendrick, Dean of Women, Room 306 Student Union

The AWS is composed of all women students on campus and is a member of the Intercollegiate Association of Women Students. Elected representatives from each residence hall serve on the AWS Council through which the women have a voice in their government. Its purpose is to promote the intellectual, social and spiritual welfare of women students; to develop in students a sense of responsibility, cooperation and friendship; and to uphold high social and academic standards among students in college.

Interfraternity Council

President: Dwight Boudreaux

Sponsor: Fred Bosarge, Dean of Men

The objectives of the IFC at Northwestern are to strengthen the interrelationships between the social fraternities at NSU; to foster and maintain high scholastic, moral, social and personal standards for Northwestern social fraternities; and to govern the overall fraternity system at Northwestern, with particular emphasis in the areas of rushing and pledging, initiation, and conduct of a fraternity judiciary board. The Northwestern IFC is a member of the Southeastern Interfraternity Conference. Each of the six social fraternities at NSU selects four representatives to the IFC. One of these representatives must be the individual fraternity president. IFC officers are elected by vote of the IFC representatives.

Panhellenic Council

President: Clydeanna Cobb

Sponsor: Mrs. Lucile Hendrick, Dean of Women

The NSU Panhellenic Council has a four-fold purpose: to promote scholarship, high character, a better understanding of the Greek world, and harmony among the Greek organizations, particularly the sororities. A member of the National

Panhellenic Conference, the Panhellenic Council serves as the governing body of the five sororities at Northwestern, with specific regulatory powers in the fields of rush, bidding, and membership ceilings. Every active member of a sorority at NSU is automatically a member of the Northwestern Panhellenic. Each sorority selects two of its members to serve on the Panhellenic Council. Officers of the Panhellenic Council are designated by rotation through the senior representatives from each sorority, in order of the establishment of the individual sororities on the Northwestern campus.

Student Government Association

President: David Precht

Sponsor: Dudley G. Fulton, Dean of Students

All regularly enrolled undergraduate students of NSU are members of the Student Body Association. All executive powers of the S.B.A. are vested in the Student Government Association which is composed of elected officers. SGA, as the basic campus organization, is invested with the responsibility of speaking for the entire student body; it supervises and coordinates student activities and it seeks to provide the proper collegiate academic and social medium. Most importantly, it serves as a link between the student and the administration.

Student Union Governing Board

President: Val Marmillion

Sponsor: Bob Wilson, SU Director

The Student Union Governing Board is the governing body of the NSU Union. Their purpose is to contribute to the social, recreational, cultural, and educational development of the students, faculty, and alumni through programs and services conducted by the members and the committees.

HONORARY ACADEMIC

Alpha Lambda Delta

President: Bonita Havard

Sponsor: Mamie B. Trunzler

Nu Sigma Chi is the NSU Chapter of the national honorary society for freshmen women. The purpose is to promote intelligent living, a high standard of learning and superior scholastic attainment. Student membership is restricted to sophomore women who have earned at least a 3.5 scholastic average during their freshman year. After their sophomore year, the members become collegiate alumnae.

Phi Eta Sigma

President: Phillip Thomas

Sponsor: Dr. D. M. Rawson, Department of History

A national honorary society for freshmen men. The purpose is to promote a higher standard of learning and to encourage high scholastic attainment. Student membership is restricted to any male student who makes a 3.5 academic average during his first semester or year of enrollment.

Phi Kappa Phi

President: Hal Townsend, Agriculture

A national honorary society open to second semester juniors, seniors and graduate students with the following requirements: undergraduates, 3.3 academic average on all college work, top 5% for juniors, and top 12½% for seniors. Graduates, 3.6 academic average on all graduate work. Staff, no more than two new staff members may be elected annually, plus replacements. The primary objective is to emphasize scholarship and character in the thought of college students.

HONORARY PROFESSIONAL

Alpha Beta Alpha

President: Mary Ann Rabalais

Sponsor: Mrs. Dorothy Hanks, Russell Library

A national coeducational undergraduate Library Science fraternity. The purpose is to further the professional knowledge of its members, to promote fellowship, to provide wholesome recreation and to serve as a recruiting agency for librarianship. Membership is composed of any bona-fide undergraduate taking courses in Library Science who maintains an over-all C average in his classwork.

Beta Beta Beta

President: Marion Leslie Johnson

Sponsor: Dr. James Price, Department of Biology

A national honorary society for students of the biological sciences. Its purpose is to stimulate sound scholarship, to promote research in the biological sciences and to disseminate scientific knowledge. Full membership requires an overall average of 2.5 and an average of 3.0 in biology. He must have a total of 10 hours in biology and must rank not lower than the fourth semester of his college work.

Beta Gamma Psi

President: Henry L. Burns

Sponsor: George Mullins, Department of Accounting

An honorary professional society to encourage and develop high moral and professional standards; to propagate a sense of responsibility and service in its members; to encourage and recognize scholastic achievement in the collegiate study of accounting; and to encourage and develop leadership ability in its members. All members must be accounting majors having finished or duly enrolled in advanced accounting in an accredited college or university, whose average grade in accounting is 3.00 and whose over-all average is not less than 2.5.

Iota Lambda Sigma

President: Jimmie D. Thomas

Sponsor: Mr. R. L. Christensen, Dept. of Industrial Education

An honorary national fraternity to promote the causes of industrial education through scholastic achievement and professional growth. Membership require-

ments include a major in Industrial Arts, an over-all "B" average and a 3.0 average in the major and potential leadership qualities.

Kappa Delta Pi

President: Thea Sheppard

Sponsor: Dr. Thomas Clinton, Dept. of Secondary Education

A national honorary society in education to encourage high professional, intellectual and personal standards, and to recognize outstanding contributions to education. A member must maintain above "B" average, be of junior or senior standing and receive an invitation from the professor.

Phi Alpha Theta

President: Stephen F. Christy

Sponsor: Dr. Wm. A. Poe, Department of History

The National Honor Society in History is composed of students and professors who have shown excellence in the field of history. Undergraduates must have twelve semester hours in history with grades averaging above a "B" and 2/3 of all other grades averaging a "B".

Pi Omega Pi

President: Mamie Small

Sponsor: Barron Wells, Department of Business Education

The national honorary business fraternity has as its purpose to establish and maintain the ideals of scholarship, progress, service and high ethical standards in business and professional life. Membership requires a "B" average in all business and allied subjects and at least a "C" average in all other subjects completed. A minimum of 15 semester hours in business and allied subjects is required.

Political Science Society

President: To be elected

Sponsor: Mr. David Milner, Dept. of Social Science

An honorary professional organization to encourage and promote the productive study and active participation in the subject of government. Members may be a major, minor or anyone interested in political science who have at least six semester hours in government with a 2.5 average in government courses.

Psi Chi

President: Vaughn Staggs

Sponsor: Dr. Caesar Moody, Department of Psychology

A national honorary society in psychology to advance the science of psychology and to encourage, stimulate and maintain scholarship of the individual members in all fields, particularly psychology. Membership requirements include at least a 3.0 average in psychology courses pursued, and a 2.6 over-all average; a major or minor in psychology; and completion of eight semester hours of psychology.

Society for Advancement of Management

President: Bill Tubre

Sponsor: Donald Ray Lincecum

A national honorary society for advancement of management. Its purpose is to provide a bridge between the classroom and the actual world of business in order to give its members a better understanding of tasks to come. A student must be in good standing with NSU and maintain a minimum of 2.0 grade average at all times. The society is open to all business majors and persons with the desire to learn the art and science of management.

HONORARY SERVICE

Blue Key

President: Ben Rushing, Jr.

Sponsor: Fred Bosarge, Dean of Men

A national honor fraternity whose purpose is service to the college and fellow students. Membership requires an overall 2.5 academic average, membership and officership in at least two campus organizations, a junior standing and 90% affirmative vote of the chapter.

Circle K

President: Ronnie Morrow

Sponsor: Mr. Tommy Johnson, Department of Business Education and Office Administration

A national service organization with intentions of helping and bettering the school and the community. Membership is open to male students of good character and a scholastic average of 2.0 with sufficient interests in the Club. Circle K is sponsored by, but not a part of, The Kiwanis Club of Natchitoches, Louisiana.

Phi Delta Kappa

President: Raymond L. Christensen

Sponsor: Alvin H. Brown

A national professional education fraternity whose purpose is to promote free public education as an essential to the development and maintenance of a democracy, through the continuing interpretation of the ideals of research, service and leadership. Membership in Phi Delta Kappa is attained by vote of incumbent members. To be eligible for consideration, a male student must be either a graduate student, or an undergraduate with at least 90 semester hours, and must be preparing for a life long career in education. College faculty members whose primary interest is in the field of public education are also eligible for membership, as are selected non-resident male career educators.

Phi Epsilon Kappa

President: Jerry Brungart

Sponsor: Dr. David Scogin, Department of Physical Education

The only national professional fraternity for male students and teachers of health, physical education and recreation. The primary objectives of the fraternity are to promote the principles of peace, friendship and brotherly love and to evaluate the

standards, ideals and ethics of professionally trained men engaged in or preparing to teach physical education, health education and recreation. Members must maintain an over-all "C" average in course work pursued.

Purple Jackets

President: Norma Oliver

Sponsor: Dr. Margaret Rucker, Home Economics

An honorary service organization whose purpose is to develop strong character, high ideals and constructive purpose by cooperative service in group organization, and to meet every responsibility and assignment placed with the group by the college administration, faculty and student body. Any woman student is eligible to membership who has attained the second semester of her sophomore year, who has not attained her senior academic year and who has been in residence for one semester, and who has attained an academic average of 2.6 on all college academic work.

RELIGIOUS

Baptist Student Union

President: Orval Duggan

Advisor: Mr. Tommy Johnson

Director: Miss Myra Gullledge, 800 College Avenue

The BSU serves as a link between the college and the local Baptist churches. It functions to remind each student of his responsibility to Christ, his church, his denomination and of his obligation as a Christian citizen to the world in which he lives. All Baptist and Baptist preference students are eligible for membership.

Canterbury Club

President: To be elected

Chaplain: Father Dave Landers, 113 Lee Street

The Episcopal Student Center, called Canterbury House, is a place where Episcopal students, faculty and interested friends meet for corporate worship, recreation, discussion and fellowship.

Christian Service Association

President: To Be Elected

Adviser: Mr. William Kornman, Department of Languages

To provide a program of spiritual growth and fellowship by providing forums for discussion of current social problems within the context of the Christian doctrine.

Church of Christ Student Devotional

Sponsor: Mr. Earl Butterworth

Box 2035, Natchitoches, La.

To strengthen faith and to continue the religious education of individual students who prefer the Church of Christ as religious preference.

Holy Cross Catholic Church

Pastor: Father James Fahey, 129 Second Street

An independent, personal (non-territorial) parish for Catholics involved with the college. Eligible for membership are full or part-time students, faculty or staff members, their spouses and children. Membership is not automatic, but depends on registration.

Wesley Foundation

President: Ken Kaufman

Chaplain: Rev. Jim Jones, 520 College Avenue

The Wesley Foundation is the Methodist Church at work on the campus, seeking through its fellowship and its facilities to foster the spiritual religious, educational and social needs of students.

Westminster Presbyterian Fellowship

Moderator: Stephen Christy

Sponsor: Mrs. Katheryne Dollar, 324 Nelken Street

Those students who want to join in the Presbyterian Church's ministry in the academic community are urged to become a part of the Westminster Fellowship. The purpose is to deal with the questions and problems of college life, to develop an inclusive, consciously Christian fellowship in which all persons are welcomed and where each may come to a deeper commitment to Christ.

SOCIAL

Alpha Sigma Alpha

President: Carrie McClelland

Sponsor: Mrs. Claire H. Green, Box 3655 NSU

A national social sorority with the four-fold objective of the intellectual, physical, social and spiritual development of its members.

Delta Zeta

President: Patricia Tynes

Sponsor: Miss Phyllis Brown, Box 4746 NSU

A national social sorority whose purpose is to unite its members in bonds of sincere and lasting friendship, to stimulate knowledge, and to promote moral and social culture.

Kappa Alpha Order

President: Ralph De Kemper

Sponsor: To Be Selected

A national social fraternity whose aim is to build Christian character, scholastic achievement and a life-long fraternal relationship with men of the highest caliber.

Kappa Sigma

President: E. Dale Thibodeaux

Sponsor: William E. Basham

A national social fraternity whose bond of brotherhood is strengthened through working together, developing leadership and social activities.

Little Sisters of Pi Kappa Phi

President: Georgie Gracie

Sponsor: Mr. Hugh K. Curry, Dept. of Social Sciences

A local organization of women to assist Pi Kappa Phi through help, co-operation and loyalty.

Phi Mu

President: Cynthia Phillips

Sponsor: Mrs. Tom Wells

A national social sorority based on principles of cultural accomplishment, academic achievement, high moral standards, service to those less fortunate and attainment of an ideal of Noble Womanhood.

Pi Kappa Phi

President: Rick Slayton

Sponsor: Ernest Hill

A national social fraternity whose way of life is scholarship, leadership, personality development, social life and loyal brotherhood.

Sigma Kappa

President: Rene Gibson

Sponsor: Mrs. Miriam G. Hearne, Box 4057 NSU

A national social sorority whose purpose is to unite its members in a bond of sincere friendship for the development of character and the promotion of social and intellectual culture; to support the program of the college; to strive for high standards of achievement; and to make a constructive contribution to the community.

Sigma Sigma Sigma

President: Gretchen Zulich

Sponsor: To be selected

A national social sorority whose aims are to establish among its members a perpetual bond of friendship, to develop in them strong womanly character, and to impress upon them high standards of conduct.

Sigma Tau Gamma

President: Malcolm Maddox

Sponsor: To be selected.

A national social fraternity which endeavors to promote the highest ideals of manhood, brotherhood and citizenship. It seeks to promote social, cultural, scholarly, recreational and benevolent fraternal accomplishments among its members.

Tau Kappa Epsilon

President: James Genovese

Sponsor: Mr. Ray Schexnider, Box 4228, NSU

A national social fraternity which strives toward the goals of strong emphasis on the character and personal worth of the individual; of insistence that the first loyalty should be devoted to education and to the educational institution; and of aspirations for a highly democratic organization. TKE strives for the qualities of scholarship, leadership, responsibility and public relations.

Theta Chi

President: Steve Bonnin

Sponsor: Rong C. Chen

A local social fraternity founded at Northwestern State University on February 13, 1968, stressing the fraternal aspects of brotherhood and the necessity of service to further benefit NSU and the men in our fraternity.

SPECIAL INTEREST

Demon Band

President: Rick Lacy

Director: J. Robert Smith, Department of Music

To provide support of the athletic events and an opportunity for those interested in music to use their talents.

Black Knights Drill Team

Commander: David Morris

Sponsor: Maj. Billy Cone

Northwestern's Black Knights Drill Team exists as an integral part of the Reserve Officers Training Corps at NSU. This precision marching team is organized to provide leadership training; to foster the development of discipline, esprit de corps and a spirit of competitiveness; and to provide a group who represents both Northwestern and its ROTC program in various ROTC drill competitions throughout the country. To be eligible for membership in the Black Knights, a student must be a member of the NSU ROTC, be in satisfactory academic standing, and demonstrate the ability to perform in accordance with the standards of the Black Knights.



Campus Girl Scouts

President: Charlotte Broussard

Sponsor: Mrs. Fern Christensen

To provide students of NSU a means of identifying with the Girl Scout movement and opportunity through fellowship and leadership for service within Girl Scouting and the college community, which purpose shall be non-sectarian, nonpolitical and not for pecuniary profit. Membership is open to those students who are in good standing at NSU, who are registered with Girl Scouts of the U.S.A., and who agree to participate in the activities of the organization.

Chemical Chapter

President: Lucinda Grant

Sponsor: Dr. H. Wayne Guin

A local society to afford an opportunity for students of Chemistry at NSU to become better acquainted, to secure intellectual stimulation, to secure experience in preparing and presenting technical material, to foster a professional spirit among members and to install a professional pride in chemistry. Membership consists of student affiliates of the American Chemical Society who receive two-thirds vote of all full members of the club.

Contemporary Dancers

President: Cindy Coker

Sponsor: Dr. Colleen Nelken

The purpose of this organization shall be to further participation and interest in modern dance by giving advanced dancers an opportunity to work together, to gain experience in performing, to do choreography and to provide entertainment



to others through the presentation of formal and informal dance programs. Membership is open to all persons who have completed one year of modern dance, or the equivalent.

Cosmopolitan Club

President: To be elected

Sponsors: Dr. and Mrs. Ramon Brodermann

To promote the Spanish language and culture and to provide the companionship of people interested in Spanish.

Davis Players

President: Tommy Davis

Sponsor: Dr. Edna West

To develop talent in dramatic work; to cultivate a taste for the best in drama; to foster the cultural values which are developed through dramatics. Requirements for membership include enrollment as a regular student with an over-all average not lower than C; a minimum of twenty-five points earned through work done in or on dramatic presentations by NSU, the points to be earned on at least two plays with a minimum of five points per play; genuine interest in the acting and staging of plays; display of fine spirit of co-operation, dependability and integrity.

Demeter Club

President: To be elected

Sponsor: Dr. Zoel Daughtrey

A national fraternity to promote interest and pride in Agriculture as a profession. Membership requirements include at least 9 semester hours of which 3 shall be agricultural credits; a major or minor in agriculture; and an over-all C average.

Demon Divers

President: To be elected

Sponsor: Mr. Ernest Howell, Dept. of Men's Health and Physical Education

This organization has as its purpose to teach and enjoy safe scuba diving as a group; to promote sportsmanship, competition and good fellowship among its members. Membership is open to all age groups with an avid interest in scuba diving and with access to scuba or skin diving equipment.

Euthenics Club

President: Margaret Andries

Sponsor: Mrs. Maxine Southerland, Dept. of Home Economics

To promote professional spirit and cooperation; to foster sociability; to develop culture; to promote scholarship; and to develop leadership. It is open to all students in the Home Economics Department and all other interested students.

Geological Society

President: Randy McKnight

Sponsor: Mr. Rene DeHon

A local society with a two-fold purpose to exchange ideas among members, faculty and visiting scientists; and to sponsor social events. Membership shall consist of all graduate and undergraduate geology majors and minors and people interested in geology.

Institute of Electrical Electronic Engineers Student Branch

President: Ronald R. Arceneaux

Sponsor: Mr. R. L. Christensen, Dept. of Industrial Arts

The NSU IEEE Student Branch, an affiliate of the national Institute of Electrical Electronic Engineers, is organized for the purpose of advancing professional development of the students of electrical engineering, electronics, radio and allied branches of engineering, and for disseminating the knowledge and practice of these fields of endeavor. Membership in IEEE is open to both graduate and undergraduate students of Northwestern, as well as faculty or staff members in the areas of interest of IEEE.

Industrial Arts Club

President: To be elected

Sponsor: To be announced

The Industrial Arts Club of NSU is organized for the objectives of uniting students majoring or minoring in Industrial Arts at Northwestern; fostering the development of Industrial Arts and Industrial Arts Education in Louisiana; promoting social activities for the IA Club membership; and seeking to develop an active interest among members in the industrial life and methods of production and distribution. Any student at NSU who is majoring or minoring in Industrial Arts or Industrial Arts Education is eligible for membership, which may be obtained by applying through the IA Club secretary.

Karate Club

President: Larry Penix

Sponsor: Hal Townsend

The purpose shall be to promote and teach the competitive spirit of karate.

N Club

President: Richard Ware

Sponsor: John Ropp, Intercollegiate Athletics

The purpose shall be to promote athletic interests of NSU among its students, faculty, alumni, and friends; to stimulate true Demon spirit; and to foster a more perfect union based upon mutual friendship and common ideals, among the wearers of the "N". Membership is composed of all men who have been awarded the "N" by the NSU Athletic Council.

National Collegiate Association for Secretaries

President: Mary Margaret Sanders

Sponsor: Mrs. Carol D. McCoy

The purpose shall be to promote the professional growth and development of young women who are planning to enter the business world for a career.

Neptune Club

President: Jane Day

Sponsor: Mrs. Pat McKinney, Dept. of Health and Physical Education

To promote swimming, diving, synchronized swimming, competitive swimming and physical fitness. Membership is open to all men and women students of NSU who have passed their intermediate swim test.

Northwestern Symphony Orchestra

Conductor: J. Robert Smith, Dept. of Music

To contribute to the cultural development of the campus community and surrounding areas; to provide laboratory experience for music majors; to provide wholesome recreational outlet for non-music majors. Membership is open to those with the ability to play an orchestral instrument and with consent of the conductor.

Ontological Club

President: Fred Pippin

Sponsor: Dr. John D. Waskom

The purpose of the club is to explore ontology, the art and science of real being. The goal of the study of ontology is the inspiration to accept an upright, unwavering identity. Members are asked to look, to see and to think.

PEM Club

President: Fern Martin

Sponsor: Dr. Coleen Nelken, Dept. of Health and Physical Education

Objectives of the Physical Education Majors Club for Women are to provide closer relationship among the members; to create more interest in Health, Physical Education, and Recreation; to further professional interest and attitudes, and to provide fun and companionship. Every woman student majoring or minoring in Health and Physical Education and women faculty members of that department are members of the club.

Phi Mu Alpha Sinfonia

President: Paul Weller

Sponsor: J. Robert Smith, Dept. of Music

A National fraternity to advance the cause of music in America; to foster the mutual welfare and brotherhood of students of music; to develop the truest

fraternal spirit among its members; and to encourage loyalty to Alma Mater. Any student, faculty or officer of the college who shows an interest in music is eligible for membership.

Society of Physics Students

President: Leonard P. McDaniel

Sponsor: Dr. James S. Browder, Dept. of Physics

Dedicated to the advancement of the physical sciences. Made up of physics majors and minors.

Psychology Club

President: Raymond Rush

Sponsor: Dr. Donald Gates, Dept. of Psychology

A local club to promote the science and study of psychology, particularly at NSU and to promote scholarship, and, through worthwhile programs, better communication among all those disciplines under the heading of "behavioral science". Eligible for full membership are all psychology majors who have completed three or more semester hours in psychology with a 2.5 minimum grade average; all psychology minors who have completed six semester hours with a 2.5 average; and all regular faculty members of the Department of Psychology.

Recreation and Park Association of NSU

President: August Kuiper

Sponsor: Dr. Warren Evans, Men's Gym, Rm. 16

Branch of nationwide organization for professional personnel and students interested in outdoor education and recreation.

Robert E. Sylvest Co., Association of U. S. Army

President: Benjamin Swilley

Sponsor: Major Clifford Eby

An organization made up of members of Reserve Officers Training Corps members. A student division of the Association of the U. S. Army.

Rodeo Club

President: To be elected

Sponsor: Dr. Zoel Daughtrey

To promote interest, understanding, appreciation and vigilance over western affairs; and to establish and maintain standards for conducting collegiate rodeo competition. Any student in good standing with NSU and a grade point average of "C" is eligible for membership.

Sigma Alpha Iota

President: Mary Frances Roberts

Sponsor: Miss May Beville, Dept. of Music

An international professional fraternity whose purposes are to uphold the highest ideals of a musical education; to develop American music and to raise the standards of productive musical work. Membership is open to female music majors in good standing, upon faculty recommendation, and with excellence in scholarship and musical ability.

S. L. T. A.

President: Frances Martin

Sponsor: Howard McCollum, Dept. of Education

To encourage a professional attitude on the part of the members; to acquaint them with the ethics of the teaching profession; and to promote interest in the parent organization, Louisiana Teachers Association. Membership is open to all students pursuing a curriculum that qualifies them for a teacher's certificate.

Sociology Club of NSU

President: Charles Arrington

Sponsor: Dr. M. S. Bienvenu, Sociology Dept.

Group of sociology majors and minors dedicated to the advancement of sociology and social work as a profession.

Student Personnel Association

President: Barry Jenkins

Sponsor: Dr. Raymond McCoy

Existing as a local organization, the Student Personnel Association has the dual aims of promoting the professional growth of students majoring in Student Personnel Services at Northwestern, and of seeking to maintain close rapport and good relations between these students, their instructors and the practicing NSU student personnel workers with whom the students are associated. To be eligible for regular membership, one must be a full-time Northwestern graduate student pursuing a degree in Student Personnel Services. Selected faculty members, student personnel supervisors and college administrative officers are extended honorary membership in the SPA through vote of the regular members.

Weightlifting Club

President: Bob Parker

Sponsor: Armando Vega, Dept. of Health and Physical Education

To introduce competitive weightlifting to NSU. Membership is open.

Young Republicans Club

President: To be elected

Sponsor: Mr. Hal E. Townsend, Jr.

The objects are to bring young people into the Republican Party and to provide an opportunity for them to find political expression and recognition; to train young people as effective political workers and to cooperate in the election of the Republican Party's nominees; to foster and encourage the activities of the Republican Party and to promote its ideals; and to collect, analyze, discuss and disseminate information concerning political affairs. Active membership is limited to those full-time students or faculty members of NSU ranging in age between 18 and 36 years, inclusive.



PUBLICATIONS

STUDENT NEWSPAPER

THE CURRENT SAUCE, established in 1914, is Northwestern's student newspaper. It is published weekly, with the exception of holidays, examination weeks, and the summer semester, when it is published once every two weeks.

The editor, appointed by the Student Publications Committee, is paid a full-time scholarship, as is the business manager. Any member of the student body is eligible for staff membership. *THE CURRENT SAUCE* is printed by the College graphic arts department.

STUDENT YEARBOOK

THE POTPOURRI, the college yearbook edited and published by students of NSU, makes its appearance in the late spring of each year. The editor is appointed by the Student Publications Committee and is awarded a full-time scholarship.

Other students of *THE POTPOURRI* staff are selected from all students interested in this type of work. Each year, awards are presented to outstanding staff members at the *POTPOURRI* assembly in the spring.



TRADITION

TRADITIONS

FRIENDLINESS

University traditions are intangible — sometimes unique — sometimes valueless except for sentimental reasons. As defined by Mr. Webster, traditions are ways of life or customs that have their roots in the past and are handed down from one generation to the next. Only those things that are meaningful tend to survive long enough to become traditions. Some of our most cherished are discussed below.

As President Kilpatrick has said many times, Northwestern actually lives up to its publicity concerning friendliness. This is the easiest tradition we have to carry on. It requires no special effort on the part of anyone. All we have to do is smile and speak to everyone we meet. You will be surprised how contagious this is.

ACADEMIC HONORS BANQUET

During March of each year, the honors organizations sponsor an academic honors banquet at which departmental and organizational awards are presented; all awards presented are based entirely upon scholastic achievement.

STATE FAIR GAME

Loyal Demons from far and near converge on Shreveport on October 24, 1970, for the annual State Fair Game with Louisiana Tech. The campus is alive with school spirit. The climax comes on Saturday with the Queen and her court being introduced prior to the kick-off.

PARENTS DAY

October 17, 1970, students extend a special invitation to their parents to visit the campus. Dormitories have open house and parents who have registered are the guests of their sons or daughters at the NSU-Pensacola Navy football game at 7:30 P.M.—Demon Stadium.

HOMECOMING

Homecoming Day is scheduled for November 14, 1970. This day of renewing old acquaintances is eagerly anticipated by students and ex-students alike. "Do you remember the time" - - - seems to be the beginning of each conversation. The dormitories and other organizations vie enthusiastically in decorating for the occasion.

CHRISTMAS FESTIVAL

For many years the City of Natchitoches has produced the Christmas Festival—a series of programs consisting of parades climaxed by the annual fireworks display that precedes the turning on of the beautiful Christmas lights—a display

for which the city has grown famous. Students take active parts in many of the activities of the day and are urged to invite their families and friends.

WINTER BALL

Sponsored by Student Union, this formal ball is a highlight of the Christmas Season at NSU. Miss Winter Ball and her court are presented and reign over the festivities.

THE STUDENT UNION

A university education at Northwestern State means far more than just attending classes and listening to lectures. Although the academic classroom is the prime justification for the existence of the University, other tools are essential to the building of a well-rounded adult. Extra-curricular activities are available to satisfy student needs which do not find expression elsewhere. The wide range of activities emphasizes the individual in his quest for expression and achievement of maximum potential. Opportunities are available for individual and group achievement, as well as recognition for this achievement. Students are limited only by their desire to participate. Extra-curricular activities are not separate and apart from the academic; they serve to greater enhance the total academic experience. The Student Union, through the Student Union Board, offers a variety of stimulating and appealing programs to the entire university family.

Located in the heart of the campus, the Northwestern State University Student Union is truly the "living room" of the University. A place where the University family may gather, the Student Union has become the "hub" of Northwestern State University's social, cultural, and recreational life.

This is only a part of the story of the Student Union. The whole story cannot be told in written words. It must be told daily by the thousands of students, faculty, alumni and visitors from every part of the world who use the building.

The Union was constructed in 1966 at a cost in excess of 1.3 million. Financing was arranged through the sale of self-liquidating bonds to be paid as the building is used. Income for the payment of these bonds is derived from student fees and income-producing departments of the building. These departments are the Bookstore, the food service, games area, barber shop, and beauty shop.

Although it offers an extensive food service, comfortable meeting rooms, bookstore, music listening room, and browsing room, the Student Union has a more important function. It can be a most rewarding cultural and social supplement to your formal education. The real purpose of the Union is to enrich the student life — through a well-rounded social and recreational program, developed by the student himself with the assistance of qualified Student Union staff.

During its brief history, the Union has become an important part of the total educational institution. It's more than just a beautiful building of stone and steel with 65,000 square feet of air conditioned space; it's a place where the entire University family gathers . . . the place to spend leisure hours . . . the popular place to eat, drink and meet friends . . . and it is the sponsor of a well-rounded activity program which includes art exhibits, dances, movie series, big name entertainment, and other social activities created by the Union Board.

FOOD SERVICE. Many types of food service are offered in the Union. From snack bar to cafeteria service, from formal receptions to banquet service,

the Student Union offers good food economically priced to the students, friends and guests of the University. When your student organization wants to have a dinner meeting, ample banquet facilities are available for almost any size group and a great variety of food and prices are yours.

MEETING ROOMS. There are a variety of meeting room sizes and styles in the Union to accommodate student meetings, get-togethers, and social events. Rooms are easily reserved in the director's office on the second floor. On many nights, all these rooms will be in use. It is wise to make early reservations for regular meetings with the reservationist. There is no charge to student groups for meeting rooms.

LOUNGES. When meeting a friend or wanting a place to rest and study, the three lounges strategically located in the building should be considered. The two large lounges are located in the 1st and 2nd floor lobbys. They are decorated in very lively colors and offer the student an open view of the patio and surrounding campus. The browsing room is furnished with comfortable lounge chairs for study or reading of the variety of current magazines that are available.

INFORMATION AND LOST AND FOUND OFFICE. The information office is located on the second floor of the Student Union. The hostess is available to assist all students with their daily problems in locating classes, buildings, and any other information they may need. Also the Lost and Found department is operated from this office. The friendly hostess is ready to assist students in any questions they may have about the campus.

POSTER AND BANNER SHOP. The poster and banner shop is operated by the Student Union. The service is available to organizations and students wishing to publicize special activities and events at a small fee. The poster and banner making equipment is operated by students and job requisitions may be obtained in Office 214. The colorful and attractive posters and banners alert the students to the all-university activities such as Big Name Entertainment, dances, and other activities.

RECREATION AREA. The recreation area or games area has eight (8) lanes for bowling with modern Brunswick pin-setters and equipment. Many students enjoy bowling with friends or dates. Also bowling classes are offered and league play is active during the regular semester. Adjoining the bowling center is the billiard area with twelve (12) professional billiard tables for the novice or skilled billiard player. The recreation and game area is located on the first floor of the Student Union.

MUSIC LISTENING ROOM, BROWSING ROOM, AND TV ROOM. This area is located in the back corridor of the second floor of the Student Union. The television room features very nice colored television that is available during any time the Student Union is open. The Music Listening room is equipped with the latest stereo equipment and AM-FM receiver. Also a cartridge deck is available for tapes. Many students enjoy the stereo music and they may request through the attendant for their choice of music. The Music Listening room has a large selection in the record library. The quiet peaceful atmosphere of the Browsing Room is very relaxing during the hectic schedule the students keep. It offers a number of current magazines for the students to enjoy while waiting for a friend or between-class breaks. Many students enjoy the browsing room for that last bit of review before going to class or taking a test.

BALLROOM. The beautiful ballroom located off the second floor lobby is used more than any other area in the building. The scenery and atmosphere is changed every time there is a different function held. You may attend a dance, decorated for a special occasion or season, a party or banquet, a reception honoring a special occasion, a style show or beauty pageant, or even a popular movie film. The ballroom has been a place where many friends have been made and lasting memories created with many students.

The Student Union Governing Board sponsors many activities for the student body annually. Each semester the freshmen are welcomed by presenting a "Howdy Dance" for them. No dates are necessary. The purpose of the dance is for meeting and making new friends.

AFTER GAME DANCES: During football season after every home game, the night would not be complete without the after game dance sponsored by the Social Activity Committee of the Union Board.

WINTER BALL: Each year during the Christmas season, the Student Union presents the all-university Winter Ball. This ball offers the opportunity to every student to attend a formal in the Ballroom. A Winter Ball Court is presented and these outstanding students are elected by the student body based on their leadership and service to the University. It is always a beautiful occasion with the Ballroom decorated for the season and the atmosphere of a formal ball.

MARDI GRAS BALL: Louisianaians celebrate a holiday known as Mardi Gras which serves as a day of carnival including gayous festivals, masquerade balls and parades. Translated from its French origin to mean Shrove Tuesday or Fat Tuesday, it is the day before Lent. At Northwestern it is a colorful affair featuring a Mardi Gras Ball with a reigning King, Queen, and Court. At this formal ball their royal highnesses are entertained by the gaiety of their royal subjects becoming known as Merry-makers. This has become known worldwide as one of the happiest, most beautifully colorful seasons celebrated in the Old South and at Northwestern State.

BIG NAME ENTERTAINMENT: For the past few years, Northwestern University has presented outstanding performers in their Big Name Entertainment series. When the Big Name entertainment comes to the coliseum, it is the biggest attraction during the semester. Such entertainers as The Lettermen, Johnny Mathis, Ray Charles, Stevie Wonder, Jay and the Americans, and Glen Yarbrough have performed on our stage. The Big Name Entertainment Committee of the Union Board plans to continue bring the current stars to the campus for the students' enjoyment. Union Showcase '70 presents Big Name Entertainment as another fine activity.



RECREATIONAL FACILITIES

The men's and women's gymnasiums offer a wide variety of organized and informal "free play" recreational activities for the student. The intramural sports program is conducted in both of these facilities. These are basically competitive programs. When not in use for classes or intramurals, the different areas are open for free play use. Equipment for all activities is available at the check-out stations. Some of

the areas of the buildings are basketball, fencing, badminton, volleyball, handball, paddleball, weight room, and gymnastics. The natatorium provides for indoor swimming activities. These facilities are open 7 days a week.

The Library

The Russell Library houses a book collection of approximately 170,000 books and bound periodicals. In addition, there is a large U. S. Document collection and a collection of Louisiana State Documents. There are also hundreds of microfilms and microcards and a small collection of phonograph records. The library subscribes to over 1800 periodicals. It provides excellent resources for undergraduate work and supports graduate programs in several areas. There is an outstanding collection in the Louisiana Room on the 4th Floor of the Arts and Sciences Building.

Most of the library is arranged and operated on the open-stack plan. Students are expected to find their own materials and are encouraged to browse through the collection at will. Help is available in the Reference Room when needed. Borrower's cards are secured at the Charging Desk.

The building is air conditioned and well lighted. There are facilities for student typing and photocopying service for library materials. Facilities for group study are limited.

Library policies and regulations are set forth in more detail in the Library Handbook, copies of which are always available in the library.

LIBRARY HOURS

Monday-Thursday	8:00 a.m. to 10:30 p.m.
Friday-Saturday	8:00 a.m. to 5:00 p.m.
Sunday	6:30 p.m. to 10:30 p.m.

Faculty Advisers

Upon entering the University, each of you will be assigned to an adviser. The advisers deal particularly with academic load and adjustment, the scheduling of successive programs of study, and scholastic records. They serve in the capacity as a personal counselor. Unless you change your course of study, it is likely that you will have the same adviser as long as you are here. These advisers have been assigned to help you. If you have problems or questions do not hesitate to seek their advice.

Counseling and Testing Center

Academic counseling of students who have selected major fields of study is accomplished by faculty advisers. For those students who have not selected majors, special counseling is provided by the Counseling and Testing Center, a division of the Office of the Dean of Students. Freshmen, who have not selected a major will be assigned an adviser by the Director of Counseling and Testing Center and will register in General Curriculum.

In addition to advising students in General Curriculum, the Center provides assistance to students who have special problems relating to their studies or personal life.

The Counseling and Testing Center is located in Caldwell Hall, Room 101.

Concessions and Sales Campaigns

Neither individuals nor organizations may operate concessions or conduct sales campaigns on the campus without prior arrangement.

Finances

General information concerning EXPENSES (i.e., room rates, tuition, infirmary fee, etc.) can be found on pages 49-52 of the University Catalogue. Detailed information on several major items of interest to students is given in separate sections of the Catalogue. Several of these sections along with their appropriate page numbers, are: FINES AND PENALTIES, page 52; LOANS, page 52; SCHOLARSHIPS, page 53; HOUSING AND LIVING ACCOMMODATIONS, pages 48-49.

Student Association Loan Fund

The Student Association maintains a loan fund to assist students to continue their education at Northwestern State University.

Two types of loans are available from this fund. Short-Range Loans are available to help the student meet an emergency and must be repaid within 30 days. A small service charge is made on the Short-Range Loans.

Long Term Loans are available to regular students who have completed one semester at Northwestern State University and must be repaid not later than three years after the student graduates or withdraws from Northwestern. Students making a Long-Term Loan execute a note signed by an acceptable endorser. The note bears 2 per cent interest while the individual is in school and 4 per cent interest after the student leaves school.

The Student Loan Fund is administered by a joint Faculty-Student Committee.

Infirmary

The University infirmary is intended as a refuge for those needing medical assistance, and not a subterfuge for malingerers. Registered nurses are on duty around the clock. The University physician makes his rounds at 5:30 P.M. Students may be admitted at any hour, but are discharged only on order of the doctor. The Infirmary fee entitles the student to routine drugs. Serious illness requiring hospitalization must be borne by the student. Students who live in town and pay the fee are privileged to use the infirmary.

Speech and Hearing Center

For those students who may believe themselves handicapped by speech and hearing problems, and for those referred to the Center by the faculty, tests and remedial treatment, if needed, are available for the asking. Students attending school on Vocational Rehabilitation scholarships granted because of speech or hearing defects are required to use the Center. If there is any doubt whether a student is in need of this service, it may be easy to find out by visiting the Director of the Speech and Hearing Center, Basement, Bullard Hall.

Book Store

The Book Store, located in the Student Union, is open on weekdays from 7:30 A.M. to 4:00 P.M. except during the lunch hour. On Saturdays it is open from 7:30 A.M. to 11:30 A.M. Most of the things you need on Campus, such as textbooks, school supplies, gymnasium uniforms, sports equipment, and knick knacks may be found there.

Post Office

The Post Office is located near the Student Union. Mail is put up daily, and goes out every day except Sunday. The windows open for business at 9:00 A.M. and remain open, except during noon hour, until 4:00 P.M. Mail arrives three times daily: 7:45 A.M., 8:30 A.M., and 1:45 P.M. It departs three times daily also: 8:00 A.M., 1:00 P.M., and 4:00 P.M.

Special delivery mail addressed to a dormitory address will be delivered there, but if addressed to the student's box number, it will be delivered to the post office. Notices will be placed in the box for registered mail, insured packages and C.O.D.'s.

The box number should be obtained prior to registering for class so that the proper address will be available. Mail should be addressed as follows:

Mr. Freddie Freshman
Box 0000
Northwestern State University
Natchitoches, Louisiana 71457

Meal Tickets

In order to keep cost of food relatively low, meal tickets are not transferable. If one is lost, misplaced, or stolen, a duplicate may be issued within 25 days of beginning of pay period at a cost of \$5.00. During the remainder of the pay period the charge will be \$2.00.





ATHLETICS

Intramural Sports For Men

The intramural sports program at Northwestern State University is sponsored by the Department of Health, Physical Education, and Recreation in order to provide an opportunity for all men students to participate in a vigorous program of competitive athletics.

Intramural participation is on an extra-curricular basis and is for non-credit.

Women's Recreation Association

Membership in the Women's Recreation Association is open to every interested woman student at Northwestern.

A member of this organization may become a participant in the many recreational activities offered. Activities and the various dates when each is offered will be publicized through several means, one being that of the Dormitory Representatives elected at early house meetings.

A point system is maintained for every member and the team she represents. As a result of this system individual medals are awarded. An award is given to the team with the greatest number of points accumulated from the various activities. An award is given to the individual who accumulates the greatest number of points.

Members with the greatest number of points who maintain at least a "C" average will have the opportunity of attending the Louisiana Federation of University Women's Recreation Association Camp the last week-end in April.

The objective of the Women's Recreation Association is to meet the play needs of the greatest possible number of women students through the various recreational activities offered.

The Women's Gymnasium is information headquarters.

GENERAL STUDENT REGULATIONS

CLASS ATTENDANCE REGULATIONS

1. The following minimum class attendance regulations for the colleges and universities under the control of the State Board of Education were adopted July 13, 1965, and amended April 3, 1970, to apply only to FRESHMAN and SOPHOMORE students.
 - a. Class attendance is regarded as an obligation as well as a privilege, and all students shall attend regularly and punctually all classes in which they are enrolled. Failure to do so will jeopardize a student's scholastic standing and may lead to immediate suspension from the university.
 - b. Each instructor shall check the roll at each class meeting, shall keep a permanent attendance record for each class, and shall report student absences to appropriate college or university officials.
 - c. A student shall submit excuses for all class absences to the appropriate official designated by the president within three class days after the student returns to his classes. The appropriate official may excuse a student for being absent.
 - d. When a student receives a total of four unexcused absences in a given class, he will be dropped from the rolls with a grade of "F". When a student accumulates excessive absences (excused and/or unexcused) in any class, the instructor may recommend to the student's academic dean that he be withdrawn from the rolls of that class and given an appropriate grade.
 - e. Tardiness is treated as an absence unless excuse is obtained from the instructor at the end of the period.
 - f. Students who are dropped for excessive absences will not be eligible to re-enter the college or university until the expiration of one full semester.
 - g. A student whose class load falls below the minimum number of hours required for a regular student, because of his own dropping of a course or because of his exclusion from a class or classes because of excessive absences, will be dropped from the rolls of the university and will be subject to the regulations concerning withdrawal from the university. When a student is dropped from the institution because of class absences, he has the right to appeal to his academic dean.

An absence is incurred when a student fails to attend class for any reason. Absences shall be counted in each course, beginning with the date of enrollment in the course as shown on the "class record".

2. **REPORTING CLASS ABSENCES.** Each instructor shall check the roll at each class meeting and keep a permanent record of each student in the Class Record Book.

- a. Instructors of courses in which freshman students are enrolled shall enter the names of all freshman students who are absent on attendance report forms and forward them daily by campus mail to the Attendance Counselor. From these report forms, absences will be posted to the individual attendance records kept by the Attendance Counselor.
- b. Instructors of courses in which sophomores are enrolled shall report to the Attendance Counselor the name of each sophomore student who is absent if the instructor decides that the absence is not excusable. If a student incurs 3 consecutive absences, the instructor shall notify the Attendance Counselor of this fact in order that the cause may be determined.

3. CLASS ABSENCE APPROVAL.

- a. Freshman students must obtain excuses for class absence from the Attendance Counselor. The Attendance Counselor may approve absence due to confinement in the University infirmary. However, treatment by infirmary personnel for minor complaints may not justify class absence approval. At his own discretion, the Attendance Counselor may approve excuses signed by parents or physicians. Any student over 21 years of age may submit his own. Excuses must be submitted to the Attendance Counselor no later than the third day after the student returns to class. If the absence is approved, the student will be given a class absence approval form which he must present to the instructor within 1 week following his return to class.
- b. Sophomore students must obtain excuses for class absences from their instructors.
- c. Absence due to trips approved by proper authority, or to the performance of special duties at the university shall be excused. On the day following the event, the member of the faculty responsible for the trip or activity will submit to the Attendance Counselor an alphabetical list of those students who participated in the trip or activity. Each student who participated, including those in sophomore, junior and senior level classes, shall secure a class absence approval form from the Attendance Counselor and present it to the instructor no later than the second class session following the absence. The instructor, upon receiving the class absence approval form, shall record the absence excused in his Class Record Book.
- d. Students absent from classes for any reason will be held strictly accountable for the work missed. Each instructor is expected to give the students with excused absences every opportunity within reason to make up the work missed. However, the responsibility for initiating any make-up work lies wholly with the student, who should, whenever possible, make the necessary arrangements before the absence is incurred.

4. PENALTIES FOR EXCESSIVE ABSENCES.

- a. Absences incurred by a student who is in the process of dropping a course, or intending to drop a course, will be recorded as unexcused.
- b. Tardiness will be treated as an absence unless excused by the instructor at the end of the period during which the tardiness

occurred. The initiative in obtaining this excuse rests with the student.

- c. In the event a student incurs a total of 3 unexcused absences in a course, the academic dean, parents, adviser, and the student are advised of this fact by the Attendance Counselor. Since it is the student's responsibility to be aware of his class attendance record at all times, failure to receive the notice of 3 unexcused absences does not alter his status. Should the student incur 4 unexcused absences in any course, he is to be dropped from that course with a grade of "F". This procedure is initiated by the Attendance Counselor.
 - d. Should a student incur a total of 10 unexcused absences in all classes, the student, parents, advisers, and academic deans are notified by the Attendance Counselor. Should another unexcused absence be incurred, the Attendance Counselor will notify the academic dean, who will suspend the student with a grade of "F" in each of the courses being pursued.
 - e. Students who are suspended for excessive unexcused absences will not be eligible to re-enter the university until the expiration of 1 regular semester.
 - f. If a student accumulates a number of absences in a course, whether excused or unexcused, that exceeds 3 times the number of scheduled class session per week, the academic dean will take action to determine whether the student is to be dismissed from the course or allowed to continue in the course. If the student is dismissed from the course the dean shall assign him a grade of "W" or "F" depending upon his standing in the class and a consideration of factors pertaining to the absences.
5. **APPEAL.** Any student penalized for being absent an excessive number of times may appeal to the Admissions, Credits, and Graduation Sub-Council. This appeal must be presented in writing to the Attendance Counselor within 3 days of the date of the letter of suspension and must outline the basis of the request. The student may also appear before the Sub-Council.
6. **ADDING COURSES.** See your adviser to find out how to add, substitute, or drop courses. If you want to drop a course, get a drop-card! Don't just quit going to class. Sometimes the Dean may allow a "W" instead of an "F".
- a. A full-time or part time student who does not make a D average (1.) on all hours pursued during a semester will be dismissed for one semester.
 - b. A full-time or part-time student who makes an average ranging from a 1. to 1.5 on all hours pursued during a semester will be placed on probation.
 - c. a. A student on probation will be given one semester to make a C average (2.) on all hours pursued during that semester which will remove him from probation; if he does not make a C average (2.), he will be dismissed for one semester. b. If a person is a part-time student at the time he is placed on probation, he must pursue at least as many hours to remove himself from probation as he was pursuing at the time he was placed on probation.

- d. After the lapse of one semester, a student may re-enter on probation, but he must make a C average (2.) on all hours pursued during the semester, or he will be dismissed again.
 - e. A student who resigns after nine weeks of a semester will receive at the time of withdrawal grades of WA, WB, WC, WD, or WF; and these grades will be used in computing his academic status.
 - f. A student dismissed at the end of the spring semester may attend the summer, but he must remain out during the fall semester. Grades earned during a summer session do not change the probational or dismissal status of a student.
 - g. A student suspended for scholastic deficiencies may re-enroll after the expiration of one semester until his fourth dismissal, which dismisses him permanently.
 - h. A student under suspension for scholastic reasons may not obtain credit toward a degree on courses pursued at another institution during the period when he is ineligible to register in an institution under the jurisdiction of the State Board of Education.
7. **APPEAL.** These are minimum standards and are to be administered by the appropriate faculty committee in each institution of higher education under the jurisdiction of the State Board of Education. Appeals must be made to the committee that is going to execute the rules. Appeals at NSU are handled by the Registrar.
8. **ADMISSION BY TRANSFER.** Transfer students must be eligible to re-enter the institution from which they are transferring.
9. **INFORMATION SHOWN ON TRANSCRIPTS FOR TRANSFER STUDENT.** Any transcript issued for a student on scholastic probation or suspension by an institution under the jurisdiction of the State Board of Education shall show the effective date of such action and length of suspension.
10. **HOURS PURSUED.** Hours pursued are defined as all courses completed and those courses not completed in which the grade of WA, WB, WC, WD and WF is received. In the case of a student's repeating a course, the last grade and credits made shall be used in computing the point ratio.
11. **FULL-TIME STUDENT.** A full-time student is one who is taking at least fourteen semester hours of scheduled work during a semester or at least six semester hours in a summer session.
12. **PART-TIME STUDENT.** Any student taking less than fourteen semester hours in a regular semester or less than six hours in a summer session will be a part-time student.
13. **RESIGNATION.** In order to resign, the student must present written permission from his parent or guardian to the Counseling and Testing Center. After resignation forms are prepared at the Counseling and Testing Center, the student must secure approval of his resignation by the appropriate academic and administrative offices.

No grades are recorded for a student who resigns prior to the middle of a semester or of a summer term. If a student resigns at mid-semester or after, his mid-semester grades determine his status on

his return. (See College Policy on Probation and Dismissal for regulations concerning the resignation of student having scholastic difficulties.)

A grade of F in each course will be given to a student who withdraws from University without official permission. Students who disregard the rules governing resignations are recorded as dismissed from the University, and they forfeit claims to a refund by the Auditor.

RULES GOVERNING SOCIAL FUNCTIONS

- A. Any committee or officers representing a group of students or an organization wishing to plan a party, dance, banquet, luncheon, dinner, picnic, entertainment or other social function must have it approved and placed on the *University Calendar* in the *Office of the Dean of Students*.
- B. All social functions are to be held on the campus or at approved places.
- C. All University activities must be properly chaperoned. The *sponsor* of the organization is held responsible and should be present, with other chaperons, throughout the entire time of the activity. (When swimming or boating is planned or permitted at any university function, a sufficient number of lifeguards approved by the head of the Health, Physical Education and Recreation Department must be provided.)
- D. Each group will be responsible for the conduct of individuals (members or guests) attending its social functions. In keeping with University policy, the use or possession of drinks which have alcoholic content is not permitted at any University function.

Procedure for Scheduling an Activity

- A. **UNIVERSITY CALENDAR REQUEST FORM.** Throughout the spring semester preceding an academic year, organizations should plan their major activities for the succeeding year. During the latter part of May each year, all applications for activities will be considered and scheduled. Organizations will be notified of action taken. Events not scheduled during the spring may be scheduled later for times which are still available. An application for each date should be filed by filling out the University Calendar Request Form in the Office of the Dean of Students. Events for Student Union must also be scheduled with them.
- B. **SOCIAL ACTIVITY APPROVAL FORM.** At least *two weeks* prior to the date of a scheduled event, a responsible representative of the organization must call at the office of the Dean of Women to obtain a Social Activity Approval Form. This form should be completed and approved by the Dean of Women at least *three days* prior to the social event.
- C. **ENTERTAINMENT FOR WHICH A CHARGE IS MADE.** A social function or entertainment for which a charge is made cannot be scheduled unless it is for the benefit of the entire Student Body, or unless it is for the benefit of some recognized charity.

Rules governing social functions apply. Additional information must be furnished to the Dean of Students, i.e., the nature of the program, approximate cost, admission fees, and proposed use of pro-

ceeds earned. A written financial statement must be submitted to the Dean of Students within fifteen days following the event.

- D. MEETINGS AND SPEAKERS. Each recognized organization may, on its own responsibility and with approval of its sponsor, hold closed meetings at which attendance is limited exclusively to members, and shall be allowed to invite any speaker of their own choosing to such meeting.

Special permission from the Office of Dean of Students must be obtained to hold open meetings at which the attendance of non-member students and/or the public is solicited or permitted. All such meetings must be properly scheduled in advance on the official University calendar and no change in the agenda as stated in the request shall be made without prior written approval of the Dean of Students.

CODE OF CONDUCT

As citizens, NSU students are entitled to enjoy the freedoms and rights afforded any citizen and they must assume the same responsibilities of citizenship. The university will act in no way to negate the opportunity of a student to exercise the prerogatives of citizenship insofar as such action does not adversely affect the university community. Only where the institution's interests as an academic community are distinctly and clearly involved should the special authority of the institution be asserted.

In the event that a student has been accused, and action on the charges is pending, the status of the student should not be altered, or his right to be present on the campus and to attend classes suspended, except for reasons relating to his physical or emotional safety and well-being, or for reasons relating to safety and well-being of students, faculty or university property. In the case of such exceptions, the appropriate personnel dean may impose such temporary sanctions on the student as are necessary for the protection of the student, the university community, and/or property. Such temporary sanctions, including separation from the institution, may exist and be enforced only until such time as final disposition has been made of the case by properly constituted authorities through the normal disciplinary channels.

In the event that a student has been convicted of an offense, the nature of which may present a clear and present danger of serious physical or mental harm to the student or to any other member of the university community or to university property, such student may be subjected to disciplinary action of a more permanent and/or severe nature.

Disciplinary action may be further instituted against the student if, in the opinion of the appropriate authority, he exercises his citizenship in a manner which is directly detrimental to the interests of the university community. In such a case the student will be liable to disciplinary action within the university community in the absence of formal accusations which would lead to trial by legally constituted authorities outside the university community.

University Policies on Code of Student Conduct

The university is dedicated not only to learning and the advancement of knowledge but also to the development of ethically sensitive and responsible persons. It seeks to achieve these goals through a sound educational program and policies governing student conduct that encourage independence and maturity. Each person, as a citizen of the university, assumes an obligation to obey all rules and regulations made by properly constituted authorities to preserve faithfully all pro-

perty provided by the state for his education, and to discharge his duties as a student with diligence, fidelity, and honor.

General Policies

Rules and sanctions affecting the conduct of men and women shall be based on general principles of equal treatment, including like penalties for like violations. Such discipline shall be limited to student misconduct which adversely affects the university and community's pursuit of its educational objects or the welfare of its members.

Disciplinary action may include one or more of the following:

1. *Expulsion*—permanent, forced withdrawal from the university.
2. *Suspension*—forced withdrawal from the college for a specified period or for any period of time.
3. *Disciplinary probation*—placing of the student under such social and behavioral restrictions as the university official or judicial body shall impose after consultation with the Dean of Students.
4. *Restitution*—includes compensation, if applicable, to the person or university body whose property rights have been violated by the offender.
5. *Fine*—in the case of traffic violations and library fines, the imposition of such fines as may be reasonable and necessary.
6. *Reprimand*—written censure of violation of specified regulation, including the possibility of more severe disciplinary sanction in the event of conviction for the violation of any regulation within a period of time stated in the letter of reprimand.
7. *Forced withdrawal* from the course and/or department within which the offense occurred, either with or without credit for the course.
8. *Change in grade* for the course in which the offending paper or examination was submitted.
9. *Change in grade* on the paper or examination in which the offense occurred.
10. *Entry in the personnel record* of the student.

Items 7, 8, and 9 may be carried out by the instructor of any course according to the general policies found in the general catalogue.

Violations

- A. Expulsion or suspension from university or any lesser sanction may result from the commission of any of the following offenses:
 1. Disregard for the physical well-being, rights and property of others.
 2. Disregard for university policies or disorderly or criminal conduct of any kind.
 3. Possession, consumption, or furnishing of alcoholic beverages on university sponsored trips, or at university functions on or off the campus.
 4. Illegal possession, use, sale, or furnishing of drugs.
 5. Gambling on the premises or at functions in which the university participates.
 6. Failure to meet promptly university related financial obligations.
 7. Academic cheating or plagiarism.
 8. Forgery, alteration, or misuse of university documents, records or identification cards.
 9. Malicious destruction, damage, defacing, or misuse of university property, including library materials, or of private property on the campus.

10. Participation in hazing. No student or group of students will be permitted to haze, use mental, verbal, or physical violence against or in any way jeopardize the health, morals, scholastic standing, or civil liberties of another student or university personnel. The unauthorized entrance into the room of another student, or subjecting fellow students to indignities of any character is a violation of regulations. Mingling with a crowd or following a crowd engaged in hazing will be considered to be a participation in hazing.
 11. Lewd, indecent conduct, or obscene conduct, or public profanity.
 12. Unauthorized possession or use of any type of firearms, fireworks and/or other explosives.
 13. Causing fires in or around the dormitories.
 14. Selling of stolen books.
 15. Unauthorized possession of building keys or unauthorized entry into buildings.
 16. Operation on the campus of a vehicle in violation of a ban imposed under the traffic regulations.
 17. Unauthorized possession of examinations.
 18. Passing of worthless checks.
 19. Interference with performance of duties by university employees, or with industrial and military recruiting teams. Mingling with a crowd or following a crowd engaged in unauthorized sit-down strikes, demonstrations, picketing, raids, or
 20. Failure to respond to comply with official and proper regulation, order or request of a duly designated authority.
- B. Disciplinary probation of any lesser sanction may result from the commission of any of the following offenses:
1. Disorderly conduct, including disorderly conduct resulting from drunkenness.
 2. Violation of any university rule approved and promulgated by the Discipline Committee for the infraction of which sanctions may be imposed under this code.
 3. Violation of visiting hour rules.
 4. Violation of housing rules as prescribed by AWS and AMS.

Judicial Bodies

NSU utilizes two judicial bodies in adjudication of cases which may require disciplinary action.

1. The Constitution of the Student Body Association empowers that Body to form a Judicial Branch. The Branch may be charged with the function of hearing special cases referred to it by the Dean of Students. Upon reaching a decision in a case of any nature whatsoever the Judicial Branch shall recommend to the Dean of Students any appropriate action other than permanent separation from the institution.

2. At the request of the Dean of Students, the Discipline Committee shall hear all appropriate cases and review a decision of the Judicial Branch or an administrative decision which is alleged by a student or a student group to be inconsistent with the prescriptions and guidelines established in this document, the Demon Handbook, the Catalogue, and the AWS-AMS Handbook.

Judiciary Appeal Procedure

The student shall have the right to appeal a decision which includes the sanction of expulsion or suspension or probation and from any decision from a personnel dean that imposes a sanction. The appeal must be made in writing within 15 days of the date of the decision. If the appeal is from the decision of the personnel dean, a letter is written to the chairman of the Discipline Committee. If the appeal is made from the decision of the Discipline Committee, the letter is then directed to the President of the University.

University Policies on Student Dress

It shall be the responsibility of each NSU Student to dress in an appropriate and acceptable manner at all times.

While the subjects of dress and personal grooming are matters of individual choice, when these matters are neglected to the point of bringing about a state of derision upon a student, the special authority of the institution shall be asserted.

Procedure in Assuring Due Process

Because separation from the institution is an extreme measure, this sanction shall not be invoked without assuring that "due process" is afforded each individual. It is intended that disciplinary measures shall be educational and not meted out for punishment, and the least disciplinary measure that will teach the individual that he must obey the rules and regulations of society is the measure most desirable.

In each instance when it is considered by the individual investigating the particular situation that separation from the institution may be the desired disciplinary measure, the following steps shall be taken:

Due Process for Students

1. The student shall be given a notice by the Dean of Students or a designate, which contains the specific charges made against him.
2. The accused may elect one of these courses of action:
 - a. The student may admit the alleged violation, waive a hearing in writing, and request that the university official take whatever action seems appropriate.
 - b. The student may admit the alleged violation in writing and request a hearing.
 - c. The student may deny the alleged violation in writing, in which case the university official shall refer him to the appropriate university official or judicial body.

In the event that the accused elects 2b or 2c above, a hearing shall be held by the Discipline Committee where both sides of the case may be heard.
3. The accused should be able to face his accusers where possible, and be present when testimony is given against him. It may not be possible to secure the presence of all witnesses, since there is no power of subpoena. This may result in use of rules of evidence contrary to court room procedures. However, in all such cases the accused shall have the opportunity of studying such evidence in advance of the hearing.
4. Should the accused so desire, he may be accompanied at the hearing by an adviser from on or off the campus. The adviser may not enter into any of the discussions or cross-examine any of the witnesses, but may advise the accused in any manner he chooses.

5. The accused shall be allowed to present oral or written testimony in his behalf.
6. When a decision is reached by the committee hearing the evidence, this decision will be forwarded to the President of the university through Dean of Students. The President may approve or disapprove the recommendations of the committee. At that time the decision will be given to the accused.

RULES GOVERNING STUDENT ORGANIZATIONS AT NORTHWESTERN STATE UNIVERSITY

The Role of Student Organizations at Northwestern State University.

As stated in the *General Catalog*, the broad overall aim of Northwestern State University is to give its students foundations in regard to:

1. Educational tools used to function successfully in occupational fields.
2. Opportunity to enhance cultural appreciations for achievement of greater happiness and self-satisfaction.
3. Development of the service concept of responsibility to others.

Student organizations at Northwestern exist to support these stated objectives of the university. Operating on the basis of voluntary participation and self-government, student organizations are an integral part of the college community, and as such are obligated to contribute to the scholastic attainment and general development of the individual student. Skills and experiences obtained through membership in a student organization serve as a valuable supplement to the formal curricula. Organizations applying for recognition by the university will be evaluated in view of the manner in which their constitutional objectives support the stated objectives of Northwestern State University.

General Requirements.

1. Individual students and student groups are responsible for conducting their activities in a manner consistent with the regulations and standards of Northwestern State University.
2. No organization shall require of its members any activity incompatible with scholastic attainment or acceptable general development of the individual.
3. Each organization has the right to elect and expel its own members, and is accountable for members' acts committed on behalf of the organization.
4. Each organization which desires to use the name of Northwestern State University and which desires to use the facilities of the University must obtain approval in the manner described in the following paragraph.

Procedure for Obtaining Recognition by Northwestern State University.

To achieve status as a Recognized Student Organization, an organization must follow this procedure:

1. Consult with the designated representative in the office of the Dean of Students and obtain forms required for recognition.
2. Complete these forms; obtain all signatures of persons so indicated on these forms; and attach to the forms a copy of the organization's constitution and by-laws, and a list of the current membership of the organization.

3. Return all forms, with attachments, to the office of the Dean of Students.

The Dean of Students will forward the completed forms and attachments to the Committee on Organizations, which is composed of representatives of the students, faculty, and administration. This Committee will evaluate the request for recognition, and make suitable recommendation to the President. The decision of the President will be communicated back to the applying organization through the office of the Dean of Students.

Following its initial recognition through this procedure, *each organization must request an annual renewal of recognition* by properly completing the Request for Renewal of Recognition form in the office of the Dean of Students *prior to November 1 of each school year.*

Special Privileges of Recognized Organizations.

Each duly recognized organization shall have these privileges:

1. The right to use the name of Northwestern State University of Louisiana in connection with organizational activities.
2. Coordinated use of facilities of the university, to include buildings, grounds, equipment, and assistance from the staff.
3. Rights to request advertising in, and news coverage by the *Current Sauce*, the *Potpourri*, and other campus publications normally open to organizational interests.

Withdrawal of Recognition.

Recognition and all privileges thereof may be withdrawn for cause. Withdrawal of recognition will be decided upon by the President after suitable recommendation by the Committee on Organizations. Initiation of request for withdrawal of recognition may be made by academic department heads, an academic or personnel dean, the Student Government Association, or any recognized organization, and will be forwarded to the Committee on Organizations through the Dean of Students.

Grounds for withdrawal of recognition must include at least one of the following charges: willful or negligent violation of the rules of the university or community; conduct deemed irresponsible or in violation of the university standards of good taste and good citizenship; or the carrying out of a program inconsistent with the aims of the university or the constitutionally-stated aims of the organization.

Any organization failing to file for annual renewal of recognition by the November 1 deadline will automatically forfeit both its recognition and its charter from Northwestern State University.

Classification of Organizations.

Recognition of each organization is granted in terms of the specific purposes stated in its constitution and by-laws, in accordance with the following classifications:

1. Honorary Academic: Groups recognizing academic achievement as their primary purpose.
2. Honorary Professional: Groups whose primary purpose is to recognize academic achievement within academic fields.
3. Honorary Service: Groups whose primary purpose is to recognize those individuals who have been outstanding in leadership, service to the institution, and who have maintained satisfactory academic standing.

4. Special Interest Groups: Groups which provide recreation, social, and professional activities based on mutual interests; which cooperate with and contribute to the general welfare and program of the university.
5. Social: Commonly known as "Greek" organizations whose purpose is promoting social activities and recreation for their members.
6. Religious (Special): Organizations, composed of students, whose primary function is to continue the religious education under the influence of individual churches. These groups occupy a special classification in that they are campus related and activities are church sponsored rather than college sponsored. Requirements for recognition differ from the college sponsored student organizations.

Organizational Meetings.

Each recognized organization may, on its own responsibility and with approval of its sponsor, hold closed meetings at which attendance is limited exclusively to members, and shall be allowed to invite any speaker of their own choosing to such meetings.

Special permission must be obtained from the Dean of Students to hold open meetings at which the attendance of non-member students and/or the public is solicited or permitted. All such meetings must be properly scheduled in advance on the official University calendar, and no changes to the agenda outlined in an approved request shall be made without prior written approval of the Dean of Students.

Membership and Officership of Organizations.

Active membership (voting and office-holding) of recognized organizations shall be limited to registered students in good standing, members of the University faculty and staff, spouses of members, and alumni, unless otherwise provided in the organization's constitution.

Organizations will not elect officers who are on academic or other probation. As stated elsewhere in these Rules, organizations at Northwestern exist to support and extend stated objectives of the University, one of which concerns scholastic attainment. Organizations whose elected officers have a less than average academic performance record, endanger the organization's reputation, stature, and recognition.

Sponsorship.

Each organization, except religious groups, shall have active and responsible sponsorship by an academic department, regular member of the faculty, or by an approved member of the administrative staff. Each honorary professional or special interest group, if related to a specific academic department, must have secured written approval of the appropriate department head before recognition will be granted.

Financial Responsibility.

The University expects each organization to anticipate, provide for, and meet promptly its financial obligations. Financial aspects of all events sponsored by recognized organizations shall be familiar to and have the approval of the faculty sponsor.

Organizations are urged to arrange for annual (or more frequent, if necessary) audits.

In event of disbanding or inactivation of an organization, the primary responsibility for properly providing for closeout of organization accounts and disposition of remaining monies rests with the organization itself. When a disbanded or otherwise defunct organization has failed to discharge its responsibilities in this area, and money remains in its account after satisfying of all debts of the organization, the account shall be cleared by transferring remaining monies to the account of the Student Government Association Loan Fund.

Naming of Organizations.

The names of organizations shall indicate the purpose of the organization. In the event of a desire to honor an individual by naming the organization for him, the individual to be so honored must have been a nationally recognized personality in the field of the academic area represented by the organization. Local or state luminaries may be so honored if they are retired or deceased.

Overall Responsibility for Organizations.

In the event of any questions regarding these Rules; needs for interpretation of any part of these Rules; or information concerning special situations, organization should contact the Dean of Students.



CONSTITUTION OF THE STUDENT BODY ASSOCIATION OF NORTHWESTERN STATE UNIVERSITY OF LOUISIANA

Preamble

We, the students of Northwestern State University of Louisiana, grateful to God for the opportunity of living in a free country, and desiring to prove and develop our capacity for self-government, do hereby adopt and establish this constitution.

AUTHORITY AND RESPONSIBILITY

The authority vested in Student Government by this Constitution is delegated by the Administration of the University. Only those powers specifically defined in the Constitution shall be the responsibility of the Student Government.

NAME

The name of this organization shall be The Student Body Association of Northwestern State University of Louisiana.

MEMBERSHIP

Membership in this organization shall include all regularly enrolled undergraduate students of Northwestern State University of Louisiana.

ARTICLE I. EXECUTIVE BRANCH

SECTION 1. Student Government Association.

All executive powers of the Student Body Association shall be vested in the Student Government Association, which shall be comprised of those persons enumerated herein:

1. The Student Government Association officers:
 - a. President, elected by the entire Student Body.
 - b. Vice-President elected by the entire Student Body.
 - c. Vice-President for Men, elected by the men students.
 - d. Vice-President for Women, elected by the women students.
 - e. Secretary, elected by the entire Student Body.
 - f. Treasurer, elected by the entire Student Body.

SECTION 2. The Duties of the Student Government Association Officers. President.

The duties of the President shall be:

1. To call special meetings of the Student Body when he deems such meetings necessary, or when requested to do so by a majority of the total membership of the Student Government Association, or when petitioned to do so by a minimum of 10 per cent of the members of the student body.
2. To select the student members of all boards and committees and appoint the chairman of each board and committee, with the approval of the Government Association, where such chairman or committee members are not otherwise named in this constitution.

3. To preside over the Student Government Association meetings and serve as an ex-officio member of all committees which he appoints.
4. The President shall have authority to fill any vacancies that may exist in any student office, with the approval of the Student Government Association, except where the office has other replacement provisions.
5. The President shall appoint two members from the SGA to serve on the Student Union Board as provided for in the Student Union Constitution.

Vice-President.

The duties of the Vice-President shall be:

1. To serve as chairman of the Student Services Committee.
2. To preside over council meetings in the absence of the President.
3. To serve as Coordinator of Committees.

The Vice-President for Men.

The duties of the Vice-President for Men shall be:

1. To represent the men's dormitory organizations and men students on the Government Association.
2. To serve as President of the Associated Men Students.
3. To serve as President of Elections Board.

The Vice-President for Women.

The duties of the Vice-President for Women shall be:

1. To represent the women's dormitory organizations and women students on the Student Government Association.
2. AWS Presidents will serve as Vice-President for Women.
3. To serve as Coed Vice-President of Election Board.

The Secretary.

The duties of the Secretary shall be:

1. To record the minutes of the meetings of the Student Government Association and keep these in permanent and regular form.
2. To be responsible for the notification of the members of the Student Government Association regarding special meetings.
3. To be responsible for all official correspondence and records.
4. To notify the Student Body Association President whenever a member of the Student Government Association accumulates three absences from Government Association meetings during one semester; and to report on late arrivals and early departures, three of either of which shall constitute one absence. When directed to do so by the President, the Secretary shall drop from the membership roll of the Government Association a person who has accumulated three absences, and shall notify the *Current Sauce* of the action so that it may be publicized.

The Treasurer.

The duties of the Treasurer shall be:

1. To secure from the business office of the University within one month after the beginning of each semester a statement of the funds available for use by the Student Government Association.

2. To pay out money according to appropriations approved by the Student Government Association and sign all approved requisitions.
3. To transmit authorizations for expenditures from the Government Association to the University business office.
4. To keep an account of all expenditures authorized by the Government Association.
5. To make a report of the Association's financial status once each month at the first meeting of the Student Government Association during that month; this report shall be published in the following issue of the *Current Sauce*.
6. To purchase all Association awards and supplies upon being properly requisitioned for the same.
7. To serve as chairman of the Budget Committee.

ARTICLE II. LEGISLATIVE BRANCH

SECTION 1. Class Officers.

- a. The presidents, vice-presidents and secretary-treasurers of the senior, junior, sophomore, and freshman classes, each to be elected by his respective class.
- b. One man and one woman representative from the senior class, elected by the senior class men and women respectively.
- c. One man and one woman representative from the junior class, elected by the junior class men and women respectively.
- d. One man and one woman representative from the sophomore class, elected by the sophomore class.
- e. One man and one woman representative from the freshman class, elected during the fall semester by the freshman men and women respectively.

SECTION 2. Duties of Class Officers.

A. Class President.

The duties of a Class President shall be: to preside at all class meetings; to bear direct responsibility to the Student Government Association for the activities of his class; to appoint any needed committees pertaining to class activities; to call class meetings whenever he thinks necessary, or when petitioned by one-third of the class; and to perform other duties appropriate to the office.

B. Class Vice-President.

The duties of Class Vice-President shall be: to assume the duties of the Class President in the absence of, or at the request of, the Class President; and to perform other duties appropriate to the office.

C. Class Secretary-Treasurer.

The duties of Class Secretary-Treasurer shall be: to keep the minutes of every class meeting and read same at the next meeting; to present an estimate of the finances to the Treasurer of the Association; and to perform other duties appropriate to the office.

ARTICLE III. JUDICIAL BRANCH

SECTION 1. NSU Student Court System.

All judicial powers of the Student Body Association shall be vested in the student court system comprised of:

- a. The NSU Student Court.

- b. The disciplinary boards of the AWS and the AMS.

SECTION 2. NSU Student Court

Purpose—To provide the students of NSU a student court to hear constitutional and disciplinary questions properly brought before them.

SECTION 3. Judges.

The NSU Student Court shall consist of six Associate Judges and one Chief Judge. Judges shall serve for the remainder of their undergraduate college career from the time of their appointment, unless the position becomes vacated because of absence, resignation, disability or other constitutional provision.

There shall be no more than 2 judges from any one class excluding the Chief Judge. There shall be no less than 2 men or women upon the court.

SECTION 4. Jurisdiction—NSU Student.

- a. Original—to interpret the Student Body Association Constitution and other duties of judicial nature as may be added by the SGA.
- b. Appellate—to hear appeals from decisions of the Judicial Disciplinary Boards of the AWS and the AMS concerning disciplinary questions properly brought to the Court.

SECTION 5. Rights.

Each student of Northwestern is guaranteed the basic procedural and substantive rights of due process as are contained in the Procedures of the Northwestern Student Court and the Code of Conduct of Northwestern in actions before any court of the university judicial system.

The NSU Student Court rights guaranteed are:

- a. Any student, member of the faculty, or member of the administrative staff shall have the right to bring a charge.
- b. No person shall be required to testify against himself.
- c. Any person charged before the Court shall have the right to counsel. Counsel for students must be undergraduate students.
- d. Any person charged before the Court shall be presumed innocent until proved guilty by the prosecution.
- e. A student charged shall be given proper and adequate notice to prepare his defense.
- f. A student charged shall be given the opportunity to testify and to present evidence and witnesses. The student shall be given an opportunity to hear and question adverse witnesses.
- g. The right of appeal to the next higher judicial body in each necessary case shall be guaranteed.

SECTION 6. Procedures.

The procedures of the student Court system shall be in compliance with the NSU Student Court Procedures and the Code of Conduct of Northwestern.

ARTICLE IV. ELIGIBILITY

SECTION 1. General Eligibility-Qualifications for All Officers.

1. Grade Average. Every officer shall have, at the time of filing for office, and at the time of inauguration, an over-all scholastic average of not less than 2.0 quality points for each semester hour pursued. Any Student

Body Association officer or appointee, including cheerleaders, judges, and editors and staff members of publications, shall be automatically disqualified from holding office at the end of any semester in which his over-all scholastic average falls below 2.0 quality points for each hour of credit pursued.

2. Residence. All Association officers must have had at least one semester in residence, at the time of filing for office, except as otherwise herein provided.
3. Period of Service. All candidates for election to the Student Government Association must be eligible to serve two full semesters.
4. Term of office is one year.

SECTION 2. Special Eligibility-Qualifications.

1. President. A candidate for President of the Student Body Association shall have been a regularly enrolled student at Northwestern State University of Louisiana for at least four complete consecutive semesters preceding his term of office. A candidate must be at least a second-term sophomore at time of nomination, as classified according to the official classification published in the University Catalog. And he should have had at least one year of active participation on the Student Government Association.
2. Vice-President. Vice-President for Men, Vice-President for Women, Secretary, and Treasurer. A candidate for Vice-President, Vice-President for Men, Vice-President for Women, Secretary, or Treasurer, shall have been a regularly enrolled student at Northwestern State University of Louisiana for at least two consecutive semesters preceding his term of office. A candidate must be at least a sophomore as classified according to the official classification published in the University Catalogue.
3. Class officers, at the time of filing, must have earned hours and quality points so as to classify him, at the beginning of the fall semester in which he assumes office, as a member of the class he represents, according to the classification system as published in the University Catalogue.
4. Dual Office-Holding. No person may hold more than one position on the Student Government Association.
5. Disciplinary Probation. No person who is on disciplinary probation is eligible to run for office, and must forfeit the office if placed on disciplinary probation during his term of office.
Only the President of the University shall have the power to place a student on disciplinary probation, as far as this constitution is concerned.

SECTION 3. Nominations.

Sub-Section A. Filing. A student desiring to be a candidate for any one of the various Association Offices shall file a written "notice of intention" with the Chairman of the Elections Board.

Sub-Section B. Notice of Intention. The "notice of intention" shall consist of the applicant's name, classification, scholastic average as certified by the Registrar's Office, name of office for which he wishes to be nominated, and the signature of a number of regular students who pledge him their support as follows:

1. For President of the Association, Vice-President, Secretary, or Treasurer, fifty signatures.

2. For Vice-President for Men or Vice-President for Women, twenty-five signatures.
3. For class officers or class representatives, fifteen signatures.

Sub-Section C. Certification of Eligibility. Candidates will be certified as to their eligibility by the Elections Board.

Sub-Section D. Publication of Certification. The names of those candidates which the Elections Board certifies to be eligible for candidacy for the offices they seek shall be published in every issue of the *Current Sauce* from the time of certification until the time of election.

SECTION 4. Elections.

Sub-Section A. General Elections. The general Student Body Association election shall be held no later than the fifteenth week (counting registration week as the first week) of the spring semester. All Association officers, except as elsewhere provided for, shall be elected in the general Student Body Association Election.

Sub-Section B. Freshman Class Officers and Representatives. Freshman class officers and representatives shall be elected in a special election presided over by the Elections Board no later than the fifth week of the fall semester (counting registration week as the first week).

Sub-Section C. Polling Places. All elections, including voting on proposed constitutional amendments, shall be held in the Student Union and/or other locations, as set up by the Elections Board. Voting machines shall be used, if available; if voting machines are unavailable, election arrangements shall be made by the Elections Board. Polls shall remain open from 8:00 A.M. until 7:00 P.M. on the day of election. Commissioners shall be named by the Elections Board; no Commissioner may be a candidate for any office.

Sub-Section D. Run-off Elections. In all instances where one candidate fails to secure a majority of votes in the general election, a run-off election shall be held one week later. In the run-off election, the two candidates having received the largest number of votes for each specified office shall compete for that office, and a simple majority shall elect.

Sub-Section E. Validation of Results. The election results shall be validated by the Elections Board. Any protest shall be heard by this Board if presented in writing to the chairman within forty-eight hours after the closing of the polls.

SECTION I. Inaugurations.

Sub-Section A. Ceremony. The inaugural ceremony shall be held during the Spring Semester in which the Association officers are elected. The retiring Student Government officers shall constitute a committee for carrying out the inaugural ceremonies properly. The retiring President of the Association, or his representative, shall preside at the inauguration, and the President of the University shall administer the oath of office.

Sub-Section B. Oath of Office. The oath of office shall be worded as follows: "I, _____, (name) do solemnly swear (or affirm) that I will faithfully execute the office to which I have been elected, and that I will do my best to execute the duties of my office and uphold the constitution of the Student Body Association of Northwestern State University of Louisiana.

SECTION 6. Assumption of Office.

Sub-Section A. Time of Assumption. Each officer shall assume the responsibilities of his office immediately upon being inaugurated.

Sub-Section B. First Meeting of Student Government Association. At least one meeting of the newly elected Student Government Association shall be held during the period remaining in the spring semester after the inauguration. The retiring President, Secretary and Treasurer of the Association shall be present at this meeting to turn over all records, keys, and bills, and to discuss any unfinished business of the retiring Association. At this meeting, all standing committees shall be appointed; and a faculty adviser for the Student Government Association shall be elected by the Association, subject to the approval of the President of the University.

ARTICLE V. THE STUDENT GOVERNMENT ASSOCIATION

SECTION 1. Duties.

The Duties of the Student Government Association shall be those enumerated herein:

1. Keep informed concerning the attitude of the Student Body with regard to all problems of student interest; provide for the general welfare of the Student Body; and make recommendations to the proper authorities.
2. Sponsor pep rallies.
3. Legislate on matters necessary for the supervision and coordination of student activities.
4. Consider and take action upon all matters referred to it by the University administration.
5. Conduct elections as provided for in this constitution.
6. Take necessary and proper action for performing the duties and powers vested in it by this constitution.

SECTION 2. Meetings.

The Student Government Association shall meet each week during the fall and spring semesters. All meetings of the Government Association shall be public except when a majority of the Association deem it necessary to go into executive session. Two-thirds of the total membership of the Government Association shall constitute a quorum for enacting business. The Student Government Association shall set the time and date for their meeting, and for special meetings as provided for in this constitution, at the first meeting of each semester.

SECTION 3. Attendance.

Any member of the Government Association who accumulates three unexcused absences from the Student Government Association meetings during any one semester shall forfeit his seat on the Association; it shall be the duty of the President of the Association and the Adviser to determine whether an absence-excuse is valid. Any officer, or any student, with a position responsible to the Association shall be removed from his office if, by a two-thirds vote, the Government Association finds him guilty of either nonfeasance or malfeasance.

SECTION 4. Vacancies.

If the office of President of the Student Body should become vacant because of absence, resignation, removal, or any disability on the part of the Presi-

dent, the Vice-President shall act as President. The line of ascension to the chair shall be the order as listed under Article 1, Section 1, paragraph 1. In the event of a vacancy in any office other than President, the Government Association shall elect from among its members a person to fill the vacancies. Vacancies in any of the class presidencies shall be filled by the ascension of the vice-president of the class; vacancies of representatives and class officers shall be filled by appointment by the president of the class in which the vacancy occurs, subject to the approval of the Student Government Association.

SECTION 5. Rules of Order.

Standard parliamentary procedure shall govern the procedure of all meetings of the Student Government Association, unless otherwise provided for in this constitution.

SECTION 6. Parliamentarian.

A parliamentarian shall be appointed by the President of the University; it shall be the duty of the Parliamentarian to advise with and help the Association decide on all matters of parliamentary procedure, but he shall not have the power to vote.

He shall serve as Chairman of the Judicial Branch.

ARTICLE VI. COMMITTEES AND BOARDS

The Standing Committee and Boards shall be the following: Student Publications Committee, Social Committee, Student-Faculty Relations Board, Elections Board, Organizations Board, Budget Committee, and Entertainment Committee.

SECTION 1. Student Publication Committee.

Sub-Section A. Membership and Duties.

1. Membership. The Student Publications Committee shall be composed of six students, named by the President of the Association, and five faculty members, named by the President of the University; one faculty member shall be Chairman. With the approval of the President of the University no two of the faculty members shall represent the same academic field. At least two of the student members of the Committee shall be chosen from the membership of the Student Government Association and no two of the students shall have the same academic major. One student should be a journalism major. Neither the Editor nor Business Manager of a publication shall serve on the Student Publications Committee.
2. Quorum. Six members of the Committee shall constitute a quorum (except as noted in "3" below) provided that at least two of the six are students and at least two are faculty members.
3. Duties. The Committee shall appoint Editors and Business Managers for the respective publications as provided for in Section 4, and approve members of the respective staffs. The Committee shall be responsible for the editorial and financial guidance and control of student publications, including the right to suspend or remove the Editors and other staff members for inefficiency, neglect of duty, malfeasance in office, or other sufficient reason (the Editor or other staff member of a publication may be suspended or removed only by a two-thirds majority vote of the full committee—i.e., by eight affirmative votes).

4. Meetings. The Committee shall meet at the call of the Chairman or at the request of any three members.

Sub-Section B. Editors and Staffs.

1. Qualifications. To be eligible for the editorship of a publication, a student must have attained to the academic classification of Junior and be in good standing at the time he takes office, and he must have at least one year of experience on the staff of the publication which he aspires to edit immediately prior to the time he takes office. A student aspiring to edit the *Current Sauce* must have completed nine hours of journalism including three hours of reporting and editing. To be eligible for the business manager-ship of a publication, a student must have attained to the academic classification of Junior and be in good standing at the time he takes office and ideally will be an accounting major. The Committee may specify any additional qualifications which it feels are desirable, but these additional qualifications must be publicized not later than the first week of the spring semester.
2. Duties. Each editor shall direct the policies of his particular publication; he shall be directly responsible for its publication and for its contents. He shall work closely with the adviser who shall be given an opportunity to review all materials before they are published. The editor shall be especially charged with the responsibility of drawing the adviser's attention to any controversial material, or other material which, if published, might prove detrimental to the University.

Sub-Section C. Faculty Adviser.

1. The President of the University shall select each year a member of the faculty to serve as adviser to all student publications (or a separate adviser for each publication). The adviser shall work closely with the various editors, and shall give them all possible advice and assistance in order to insure publications of high quality, and in order to assist the editors in screening out all materials which, if published, might prove detrimental to the University. No adviser shall be a member of the Student Publications Committee.

Sub-Section D. Appointments.

1. A "Notice of Intention" for the editorship of any student publication shall be filed with the chairman of the Student Publications Committee; each notice shall include the name of the proposed Business Manager and the other most important staff members. The Student Publications Committee shall determine whether or not each candidate is qualified for the editorship to which he aspires and will choose the student deemed best qualified to serve as Editor. Appointment of Editors and Business Managers shall be subject to the approval of the Student Government Association. The Student Government Association shall set the date of filing and shall publish the date in the official journal.

Sub-Section E. Vacancies.

1. A vacancy in the editorship of any student publication shall be filled by action of the Student Publications Committee, ratified by the Student Government Association.

Sub-Section F. Financial Reports.

1. The Chairman of the Student Publications Committee shall submit to the Student Government Association in November, Feb-

ruary, and May a report on the financial conditions of each student publication.

SECTION II. The Student-Faculty Relations Committee.

Sub-Section A. Membership. The committee shall consist of the President of the Association (provided that he lives in a campus residence hall, otherwise the Vice-President will serve as chairman), the president of each class, and two student members appointed from the student body at large.

Sub-Section B. Function. The committee shall serve as a medium both for conveying student needs and opinions to the university administration and for conveying administrative suggestions and opinions to the student body.

SECTION III. The Elections Board.

Sub-Section A. Membership. The President of the Elections Board shall be the Vice President of Men. The coed Vice President of the Elections Board shall be the Vice President of Women. Five additional committee members shall be appointed by the Vice President of Men and Vice President of Women, subject to the approval of SGA.

Sub-Section B. Duties. It shall be the responsibility of the Elections Board to set up the facilities for elections, and to appoint as many impartial election commissioners as are needed, and to set the time for filing intentions and election dates.

Sub-Section C. Authority. The Elections Board shall pass on all disputes concerning campaigns, balloting, elections, nominations, and technical qualifications of candidates or office holders. Any student may protest an election, but the election will be considered valid unless protested within forty-eight hours after the closing of the polls. In the event of a protest concerning the General Election in the spring, the retiring board shall hear the protest. The Elections Board shall try all cases of violations of the election rules, but appeal may be made to the Judicial Branch upon rejection by the Elections Board.

SECTION IV. The Organizations Board.

Sub-Section A. Membership. The Organizations Board shall consist of the Vice-President for Men, the Vice-President for Women and three other members.

Sub-Section B. Duties. It shall be the duty of the Board to work with a committee appointed by the President of the University in issuing charters to existing campus organizations, and to study applications for new charters. Subject to the approval of the President of the University, charters may be withdrawn from the organizations that have ceased to function.

SECTION V. The Budget Committee.

Sub-Section A. Membership. The Budget Committee shall consist of the Vice-President of the Student Body Association, the Vice-President for Men, the Vice-President for Women, the Treasurer; and the Chairman of the Publications Committee; the Treasurer shall serve as chairman.

Sub-Section B. Duties. The Budget Committee shall prepare an annual budget for the Association, and shall receive and act on the budgets of the

Current Sauce, the *Potpourri*, the University Theatre, and all other student organizations which submit budgets.

SECTION VI. The Entertainment Committee.

Sub-Section A. Membership. Membership shall consist of five members appointed by the Vice-President of the Association who shall serve as chairman.

Sub-Section B. Duties. The Entertainment Committee shall prepare a budget for entertainment and shall have the responsibility of arranging, contracting and presenting entertainers.

SECTION VII. The School Spirit Committee.

Sub-Section A. Membership. The School Spirit Committee shall be composed of five students appointed by the President of the Association. In addition the President shall designate three of the cheerleaders (of which one shall be the head cheerleader) to be members. The Chairman shall be appointed by the President of the Student Government Association.

Sub-Section B. Duties. The Committee shall take a continuing responsibility for school spirit on the N.S.U. campus.

1. The committee shall ascertain to what groups the school spirit trophies shall be awarded each year. (One to sororities, one to fraternities, and one to all other organizations).
2. The school spirit committee shall hold a meeting early each semester (and at other times if need derives) with all chartered organizations on the campus. The committee shall explain to these organizations their responsibility in school spirit both in terms of general responsibility and in terms of the week or weeks in which they will be expected to lead.
3. The committee shall be responsible for obtaining a complete cheerleading group in the event that all cheerleader offices are not filled.
4. The committee shall be responsible in association with the president for the administration of the State Fair Week.
5. It shall be the duty of the committee to sponsor pep meetings.
6. The School Spirit committee shall act continually to insure school spirit at N.S.U. It shall be responsible for maintaining respect for the administration, the faculty, the SGA and other student organizations and the general respect for the university as a whole. In such time that it may deem that school spirit is lagging, it shall take corrective measures and procedures.

SECTION VIII. Cheerleader Tryouts.

All persons trying for cheerleader positions (10 cheerleaders and one demon and a man and a woman alternate) shall sign letters of intention and turn them in to the SGA no later than May 1 of the spring semester. Nine cheerleaders and the demon shall receive a one-fourth scholarship for the fall semester only. The head cheerleader shall receive a one-half scholarship for the fall semester only. Cheerleaders must attend all athletic events and shall not incur three unexcused absences to be determined by the committee and the committee has the right to remove those who have exceeded this limit.

Election of the sponsor of the cheerleaders and the Pom Pom Squad shall be voted on by the school spirit committee. Head cheerleader shall be elected by the newly-elected within their group before the end of the spring semester.

SECTION IX. Attendance.

Any committee member who has three or more unexcused absences from a committee meeting may be removed by the Spirit Committee.

SECTION X. Reports.

The Chairman of each of the foregoing committees, except the chairman of the Elections Committee, shall submit a monthly report to the Student Government Association.

ARTICLE VII. FINANCES

SECTION 1. Student Body Association Fees.

- A. The general Student Body Association fee shall be \$15.50 for the fall semester, allocated as follows: *Potpourri*, \$7.00; *Current Sauce*, \$1.25; drama activities, \$.50; Student Body Association activities, \$1.00; Alumni dues, \$.50 and Student Union program fee \$5.25. (Should both husband and wife of a family be members of the Association, only one would be required to pay that portion of the fees allocated to the *Potpourri*.)
- B. The general Student Body Association fee shall be \$8.50 for the spring semester, allocated as follows: *Current Sauce*, \$1.25; drama activities, \$.50; Student Body Association activities, \$1.00; Alumni dues, \$.50; Student Union Program, \$5.25.
- C. The Student Body Association fee shall be \$4.25 for the summer session, allocated as follows: *Current Sauce*, \$.50; drama activities, \$.25; Student Association activities, \$.50; Alumni dues, \$.25, and Student Union Program, \$2.75.
- D. Each student who attends classes on the Natchitoches campus shall be assessed a fee of \$4.50 per semester, or \$2.25 per summer session, for the purpose of debt retirement and operation of a student union.

SECTION 2. Expenditures.

Sub-Section A. Awards. The Student Body Association shall present the following annual awards, or awards to its equivalent.

1. To each member of the Student Council—A key.
2. To each cheerleader—A sweater upon his being elected to serve a second year as cheerleader. No one person shall receive more than one such sweater.
3. To each Purple Jacket—The purple jacket which is the emblem of the organization; this award is to be made at the time the individual is selected for membership in the organization.
4. To each debater—A sweater at the beginning of his senior year, provided he has three years of prior participation. At the end of each participation period, the Coach of the debate squad shall be responsible for providing the Council with a list of those who participated during the year.

5. To each athlete who has lettered in a GSC sport or sports for four years—A blanket inscribed with a large block "N", the name of the individual and the sport or sports in which he lettered. At the end of each participation period, the Director of Athletics shall be responsible for providing the Council with a list of those who lettered during the year.
6. To each senior member of the university band—A sweater, at the beginning of his senior year, provided he has three years of prior participation. At the end of each year, the Band Director shall be responsible for providing the Council with a list of those who participated throughout the year.
7. To each Blue Key and Circle K Member—A blazer to be awarded upon initiation into the Blue Key National Honor Fraternity or Circle K.
8. To each Drill Team Member—Each drill team member receives upon completion of four semesters as a regular active member, and being at the time of award in the fifth semester as a regular member, a white button front sweater with a letter bearing a distinctive Black Knight crest superimposed upon it. The letter will reflect two years activity by means of service stripes.
9. Provisions of annual awards to each organization will be dropped at the request of the organization.

Sub-Section B. Scholarships.

1. The President of the Student Body Association shall receive a full-time scholarship (a full-time scholarship provides a stipend equivalent to the total cost of the infirmary fee, dining hall meal-ticket, and rental of any dormitory room). The Vice-President, the Vice-President for Men, the Vice-President for Women, the Secretary, and the Treasurer of the Association shall each receive a half-time scholarship (a half-time scholarship provides a stipend equivalent to one-half that of a full-time scholarship).
2. The scholarships for the President, the Vice-Presidents, the Secretary, and the Treasurer of the Student Body shall be paid out of the general Student Body funds. The scholarships of the *Current Sauce* staff members shall be paid from the funds of the *Current Sauce*; and the scholarships of the *Potpourri* staff shall be paid from the funds of the *Potpourri*. These scholarships shall be paid at such times and in such manner as are the other student employment positions of the University.

Sub-Section C. Other Expenditures.

1. Expenditures for Student Body Association activities not found in this constitution shall be made only with the approval of a majority of the Student Government Association. Purchases shall be made only through the business office of the University, and no permission to make a purchase shall be granted without prior approval of a majority of the Association. Approval of payment is not necessary once the approval of the purchase is given by a majority vote of the Association.
2. Travel-expenses of students representing the Association shall be paid if such trips are authorized by the Student Government Association in advance. Receipts must be submitted for all such expenditures.
3. Other expenditures, except for awards and salaries, may be made by the Association upon approval of a majority vote of the Association.

ARTICLE VIII. LOAN FUND

The Student Government Association shall set up rules and regulations governing the Student Loan Fund (Article VIII, Section 1); and the fund shall be administered by the Student Loan Committee, comprised of three faculty members named by the President of the University and three student members named by the President of the Student Body Association. Long-term loans shall be made available. There shall also be made available short-range loans which will enable students to secure funds not in excess of the highest monthly room and board payment for a period not to exceed thirty days, except that no loans from this fund shall be made during the last fourteen days of a semester or a summer session.

ARTICLE IX. AMENDMENTS

SECTION 1. Proposal of Amendment.

An amendment to this constitution may be proposed by a two-thirds majority vote of the entire membership of the Council, or by the presentation to the Council of a proposal-petition signed by 10 percent of the Association, and presented to the Council. The amendment must contain a statement as to the effective date of its provisions.

SECTION 2. Voting on Amendment.

Any proposed amendment of the constitution must be published in three consecutive issues of the *Current Sauce* prior to being voted upon by the Association; the election to amend the constitution shall be held on the Tuesday following the third publication.

ARTICLE X. PUBLICATIONS

The official publications of the Student Body Association shall be the *Current Sauce*, newspaper; the *Potpourri*, yearbook; and any others the Student Council may recognize in the future.

SECTION 1. Publications.

- a. *Current Sauce*. The *Current Sauce*, the student newspaper, shall be the official journal of the Association; and it shall be the duty of the editor to see that a staff reporter is present at all Student Government Association sessions and that these sessions are reported in the *Current Sauce* in order that all members of the Association can know of the official action of their governing body. The editor and adviser and the Student Publications Committee shall determine the number of issues to be published, the size of the issues, and the frequency of publication.
- b. *Potpourri*. The *Potpourri* shall be the official yearbook of the Association.

SECTION 2. Scholarships.

Scholarships of Editors, Business Managers, and other staff members of the *Current Sauce* and the *Potpourri* shall be paid from funds of the publications. The Editors and Business Managers of the *Current Sauce* and the *Potpourri* shall each receive a full-time scholarship (a full-time scholarship provides a stipend equivalent to the total cost of the infirmary fee, dining hall meal-ticket, and rental of any dormitory room). The Student Publications Committee may upon recommendation of the faculty adviser approve additional scholarship positions as are deemed necessary for efficient operation. Scholarship positions on the *Current Sauce* will not exceed five full-time scholarships, including the Editor and Business Manager. Scholarships on the *Potpourri* shall be paid only during the spring and fall semesters.

The *Potpourri* Staff will receive the equivalent of five full-time scholarships. Scholarships on the *Current Sauce* shall be paid to the Editor, Assistant Editor, Business Manager, and four staff members for the fall and spring semesters. If the paper is published during the summer session, they shall receive scholarships.

ABOUT THE UNIVERSITY

The campus of Northwestern State University occupies 916 acres of rolling, pine covered hills in the historic and picturesque city of Natchitoches, oldest permanent settlement in the Louisiana Purchase.

Northwestern is Louisiana's oldest state university. The campus site was the property of the Bullard family during the years preceding the Civil War. Three of the four white stuccoed columns that once supported the east gable of the imposing Bullard mansion are the only remaining symbols of this early chapter of the history of the university.

As early as 1856, the Bullard Mansion was used as a convent by the Ladies of the Sacred Heart. The following year, the actual school building, known as the Convent Building, was erected.

The convent closed in 1875, and in 1884 the properties were purchased by the town and parish of Natchitoches. The same year, the Legislature passed a bill establishing a normal school in Louisiana.

Captain Leopold Caspari, a member of the Legislature, offered the present site with the anticipated approval of Natchitoches citizens, and Natchitoches was awarded the institution.

The first session of the Louisiana Normal School was in 1885 with three teachers and 27 students. After the institution began to grant four-year degrees, the name was changed in 1921 to Louisiana State Normal College.

By 1944, the school had become so diversified that the college was re-organized into three schools, and the name was changed to Northwestern State College.

Northwestern's Graduate School was established in 1954, and the school now grants masters, specialists and doctor's degrees. Just this year, the Louisiana Legislature approved university status for Northwestern, changing the name of the institution to Northwestern State University of Louisiana.

In the past five years, the university has experienced incredible progress in enrollment, physical expansion and academic advancement.

Northwestern now has six undergraduate schools—Education, Business, Science and Technology, Liberal Arts, Basic Studies and Nursing—in addition to the extensive Graduate School program.

More than \$10 million in building projects have just been completed or are in progress currently. Included are a physical education building, arts and sciences building, biological sciences building and library. Northwestern now has more than 60 buildings for housing, classes and administrative offices.

Numerous campus service centers are maintained by the university, including laboratory schools, Louisiana Studies Institute, Williamson Museum, the educational media center, computing center, special education center, speech and hearing rehabilitation center, school planning laboratory and several research institutes.

The university has a faculty of 300 and recently expanded its academic departments to 28. An enrollment of more than 6,500 is expected for the fall semester.

ALMA MATER

By ISABEL WILLIAMSON

(Mrs. S. J. Cumming)

Air: Watch on the Rhine

Oh, Alma Mater here today,
We for thy lasting blessings pray,
We know not where our paths may go,
But, thou'lt uphold us still we know.
Unchanging thou, 'mid changes vast,
Unswerved from ideals of the past
Steadfast and true, our watchword e'er shall be—
To thee, our Alma Mater, Loyalty!

Thy trees their solemn chorus bend
About thee, flowers their censers blend.
Our voices swe'l their murmuring strain,
Our hearts repeat the old refrain,
Thy purpose high to carry on—
Northwestern, thou hast honor won!
Steadfast and true, our watchword e'er shall be—
To thee, our Alma Mater, Loyalty!

In after years, when far away,
Thy presence strong will near us stay;
And as the echo of our song
Will, with new courage, lead us on;
And to our eager vision then
Each subtle memory meaning lend,
Steadfast and true, our watchword e'er shall be—
To thee, our Alma Mater, Loyalty!

LOUISIANA'S OLDEST STATE UNIVERSITY



M Men's Dormitory
W Women's Dormitory
D Dining Facility

- 1 Married Housing
- 2 ROTC Army
- 3 Caldwell Hall
- 4 Warren Eastern Hall, Northwestern Elementary
- 5 Russell Library
- 6 Centrax Building
- 7 Power Plant
- 8 Warehouse and Carpentry Shop
- 9 Industrial Education Bldg.
- 10 Bullard Hall, Special Education
- 11 President's College
- 12 Women's Hall (W)
- 13 Audubon Hall (W)
- 14 Agnes Morris Hall (W)
- 15 Infirmary
- 16 Bienville Hall
- 17 Louisiana Hall (W)
- 18 Kate Chopin Hall
- 20 Carondelet Hall
- 21 Student Center

- 22 Neeson Natatorium
- 23 Fine Arts Bldg., Music Art, Speech
- 24 High School
- 25 Trade School
- 26 High School Gymnasium
- 27 Sorority, Fraternity Houses
- 28 Teacher Education Center
- 29 Home Management House
- 30 Home Economics Bldg.
- 31 Fourcet Hall, Physical Sciences
- 32 Business Administration Bldg.
- 33 Williamson Hall, Biological Sciences
- 34 Scheib Hall (M)
- 35 "A" Dormitory (M)
- 36 "C" Dormitory (M)
- 37 "B" Dormitory (M)
- 38 "D" Dormitory (M)
- 39 Tennis Courts
- 40 Stroud Field
- 41 Prudhomme Hall (M)
- 42 Men's Gymnasium
- 43 Casper Hall (M)
- 44 Demon Stadium & Dormitory (M)

28



67. Agriculture Accessory Building
68. Post Office Building
69. Science Building
70. Site of Proposed Library Bldg.
71. Women's Physical Education Bldg.

- 46 Natichloches Hall (M)
- 47 St. Denis Hall (D)
- 48 Caddo Hall (W)
- 49 Boister Hall (M)
- 50 North Hall (M)
- 51 West Hall (M)
- 52 South Hall (M)
- 53 Security and Communications Center
- 54 Laundry
- 55 Auto Shop & Warehouse
- 56 Dairy
- 57 Poultry Grounds
- 58 Pig Pen
- 59 Fox Hall
- 60 Sabine Hall (W)
- 61 Bernylle Hall (D)
- 62 Rapids Hall (M)
- 63 Student Union Building
- 64 Arts and Sciences Building
- 65 Northwestern Junior High School
- 66 Lakelton Pier

NORTHWESTERN STATE UNIVERSITY

Louisiana Room

1971

RUSSELL H. RUSSELL

NORTHWESTERN STATE UNIVERSITY

NATCHITOCHES, LOUISIANA

1971-1972 GENERAL CATALOGUE



NORTHWESTERN STATE UNIVERSITY BULLETIN

Vol. LIX

DECEMBER, 1970

No. 4

GENERAL CATALOGUE

Northwestern State University
Louisiana Room

1971



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NORTHWESTERN STATE UNIVERSITY
NATCHITOCHES, LOUISIANA

Natchitoches, Louisiana

ANNOUNCEMENTS 1971-1972

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UNIVERSITY CALENDAR 1971-1972

SUMMER SESSION 1971

Session Begins	8:00 a.m., Saturday, May 29, 1971
Freshman Dormitories Open	1:00 p.m., Sunday, May 30, 1971
Freshman Orientation	Monday, May 31 to noon, Tuesday, June 1, 1971
Cooperative English Test (Doctoral)	C101, 2:00 p.m., Tuesday, June 1, 1971
Registration	Noon, Tuesday to noon, Wednesday, June 1-2, 1971
Classes Begin	8:00 a.m., Thursday, June 3, 1971
Last Date to Register for Credit	Wednesday, June 9, 1971
Holiday	Monday, July 5, 1971
Session Examinations	Monday-Wednesday, July 26-28, 1971
Session Grades Due	Noon, Thursday, July 29, 1971
Commencement Exercises	8:00 p.m., Friday, July 30, 1971
Session Ends	Friday, July 30, 1971

FALL SEMESTER 1971

Semester Begins	8:00 a.m., Saturday, September 11, 1971
Freshman Dormitories Open	1:00 p.m., Sunday, September 12, 1971
Freshman Orientation ..	8:00 a.m., Monday to noon, Tuesday, September 13-14, 1971
Cooperative English Test (Doctoral) C101, 2:00 p.m., Tuesday, September 14, 1971	
Registration	Noon, Tuesday to noon, Thursday, September 14-16, 1971
Classes Begin	8:00 a.m., Friday, September 17, 1971
Last Date to Register for Credit	Friday, September 24, 1971
Preliminary Examinations (Doctoral)	Wednesday, October 20, 1971
Mid-Semester Grades Due	Noon, Monday, November 15, 1971
Thanksgiving Holidays	Noon, Wednesday, November 24 to 8:00 a.m., Monday, November 29, 1971
Christmas Holidays	Noon, Saturday, December 18, 1971 to 8:00 a.m., Monday, January 3, 1972
Semester Examinations	Monday-Saturday, January 17-22, 1972
Semester Grades Due	Noon, Monday, January 24, 1972
Commencement Exercises	8:00 p.m., Thursday, January 27, 1972
Semester Ends	Thursday, January 27, 1972

SPRING SEMESTER 1972

Semester Begins	8:00 a.m., Saturday, January 29, 1972
Freshman Dormitories Open	1:00 p.m., Sunday, January 30, 1972
Freshman Orientation	8:00 a.m., Monday to noon, Tuesday January 31-February 1, 1972
Cooperative English Test (Doctoral) C101, 2:00 p.m., Tuesday, February 1, 1972	
Registration	Noon, Tuesday to noon, Thursday, February 1-3, 1972
Classes Begin	8:00 a.m., Friday, February 4, 1972
Last Date to Register for Credit	Friday, February 11, 1972
Mardi Gras Holidays	Noon, Saturday, February 12 to 8:00 a.m., Thursday, February 17, 1972
Preliminary Examinations (Doctoral)	Wednesday, March 15, 1972
Mid-Semester Grades Due	Noon, Tuesday, March 28, 1972
Easter Holidays	8:00 a.m., Wednesday, March 29 to 8:00 a.m., Wednesday, April 5, 1972
Semester Examinations	Monday-Saturday, May 22-27, 1972
Semester Grades Due	Noon, Monday, May 29, 1972
Commencement Exercises	8:00 p.m., Thursday, June 1, 1972
Semester Ends	Thursday, June 1, 1972

SUMMER SESSION 1972

Session Begins	8:00 a.m., Saturday, June 3, 1972
Freshman Dormitories Open	1:00 p.m., Sunday, June 4, 1972
Freshman Orientation	Monday, June 5 to noon, Tuesday, June 6, 1972
Cooperative English Test (Doctoral)	C101, 2:00 p.m., Tuesday, June 6, 1972
Registration	Noon, Tuesday to noon, Wednesday, June 6-7, 1972
Classes Begin	8:00 a.m., Thursday, June 8, 1972
Last Date to Register for Credit	Wednesday, June 14, 1972
Holiday	Monday, July 3, 1972
Session Examinations	Monday-Wednesday, July 31-August 2, 1972
Session Grades Due	Noon, Thursday, August 3, 1972
Commencement Exercises	8:00 p.m., Friday, August 4, 1972
Session Ends	Friday, August 4, 1972

C A L E N D A R

1971 - 1972

1972-1973

SEPTEMBER 1971

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¹Temporary part-time.

²Temporary appointment.

- ¹Temporary part-time.

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Ed.D., George Peabody College for Teachers
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M.S.W., University of Tennessee

¹On leave, 1970-1971.²Temporary part-time.

¹Temporary appointment.

- EVERETT, ANN S. *Instructor of Nursing*
B.S., University of Alabama
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M.S., Michigan State University
- GOODWIN, GAIL C. *Associate Professor of Educational Psychology and Guidance*
Ed.D., Oklahoma State University

¹Part-time.²On leave, 1970-1971.³Temporary appointment.

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- GRECO, EDWARD C. *Coordinator of Science and Technology*
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- HALL, HURST M. *Associate Professor of Special Education*
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- HANCHEY, ORVILLE J. *Professor of Art*
M.A., Louisiana State University *Head, Department of Art*
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- HARPER, GRADY M. *Professor of Art*
Ph.D., Louisiana State University
- HATLEY, DONALD W. *Assistant Professor of English*
Ph.D., East Texas State University
- HAYES, BETH¹ *Instructor of Nursing*
B.S., Northwestern State University
- HENNIGAN, JOHN R. (LT. COL.) *Professor of Military Science*
B.S., Louisiana State University *Head, Department of Military Science*
- HENNIGAN, THOMAS L. *Associate Professor of Education*
Ed.D., Indiana University *Acting Head, Department of Educational Media*
- HICKS, MARGARET C. *Assistant Professor of Nursing*
M.S., Columbia University
- HIERN, SARA *Instructor of Nursing*
M.S., Tulane University
- HILL, ERNEST L. *Assistant Professor of Health, Physical Education and*
M.S., University of Tennessee *Recreation*
- HILL, PEGGY *Assistant Professor of Nursing*
M.N., Emory University
- HILLARD, JOYCE² *Assistant Professor of Health, Physical Education*
M.S., Louisiana State University *and Recreation*
- HILLE, BETTY *Instructor of Nursing*
M.N., Emory University

¹Temporary part-time.²On leave, 1970-1971.

- HIX, JOHN L. *Assistant Professor of Business Administration*
M.B.A., Louisiana State University
- HOPKINS, W. CLYDE¹ *Assistant Professor of Accounting*
B.B.A., Case-Western Reserve University; C.P.A.
- HOUCHINS, WAYNE L. *Assistant Professor of Educational Psychology*
Ph.D., University of Alabama *and Guidance*
- HOWELL, ERNEST O. *Assistant Professor of Health, Physical Education*
M.S., University of Arkansas *and Recreation*
- HYDE, H. WAYNE *Associate Professor of Chemistry*
Ph.D., Tulane University
- INGRAM, LUCILE W. *Instructor of English*
M.A. in Ed., Northwestern State University
- JAMES, LEWIS FRANK *Associate Professor of Educational Psychology*
Ph.D., University of Texas *and Guidance*
- JENNINGS, RICHARD E. *Assistant Professor of Music*
M.A., Louisiana Tech University
- JOHNSON, ANN² *Instructor of English*
M.A., Emory University
- JOHNSON, BETTY V. *Associate Professor of Home Economics*
M.S., Iowa State University
- JOHNSON, JOE ASBERRY *Assistant Professor of English*
M.A., Ohio State University
- JOHNSON, JOSEPH W. *Assistant Professor of Business Education*
M.S. in Ed., Northwestern State University *and Office Administration*
- JOHNSON, TOMMY G. *Assistant Professor of Business Education*
Ed.D., Arizona State University *and Office Administration*
Head, Department of Business Education
and Office Administration
- KEENAN, CHARLES³ *Assistant Professor of Sociology*
M.S., Sam Houston State University
- KILPATRICK, ARNOLD R. *President*
Ed.D., Louisiana State University
- KINARD, CONRAD R. *Assistant Professor of Education*
Ed.D., Louisiana State University
- KING, JUNE³ *Instructor of Health, Physical Education and Recreation*
M.S., University of Tennessee
- KIRKCONNELL, THOMAS W. *Assistant Professor of German*
M.A., Brown University
- KIRST, ROBERT C. *Assistant Professor of Agricultural Sciences*
Ph.D., Louisiana State University
- KNIPMEYER, WILLIAM B. *Professor of Geography*
Ph.D., Louisiana State University *Head, Department of Social Sciences*
- KNOTTS, KENNETH L. *Instructor of Political Science*
M.A., Northwestern State University

¹Appointment effective January 23, 1971.²Temporary part-time.³Temporary appointment.

- KRAUSE, ROBERT J. *Instructor of Music*
M.Mus., University of Miami
- KRUSE, DWAYNE N. *Associate Professor of Biological Sciences*
Ph.D., Florida State University
- KYZAR, BARNEY L. *Professor of Education*
Ed.D., University of Texas *Head, Department of Secondary Education*
 Director, School Planning Laboratory
- LAMBERT, ADELE R.¹ *Instructor of Nursing*
M.S.N., Emory University
- LAMPRECHT, WILLIAM O., JR.² *Assistant Professor of Biological Sciences*
M.S., Texas A&M University
- LAND, MARGARET¹ *Assistant Professor of Mathematics*
M.S., Northwestern State University
- LANGSTON, NANCY² *Instructor of Nursing*
B.S., University of Arkansas
- LEBLANC, JOHN R., JR.³ *Assistant Professor of Music*
M.Mus., Louisiana State University *Choral Director*
- LEBRETON, MARIETTA *Associate Professor of History*
Ph.D., Louisiana State University
- LEDBETTER, PEGGY JEAN *Associate Professor of Nursing*
Ed.D., University of Alabama *Dean, College of Nursing*
- LEE, J. C. *Assistant Professor of Physics*
Ph.D., University of Florida
- LEVY, CHARLES G. *Instructor of Business Administration*
M.B.A., Louisiana State University
- LEWIS, LUELLA M. *Assistant Professor of Health, Physical Education*
M.S., Northwestern State University *and Recreation*
- LIN, JAMES C. *Associate Professor of Biological Sciences*
Ph.D., North Carolina State University
- LINCECUM, DONALD R. *Instructor of Business Administration*
M.B.A., Northwestern State University
- LIPSEY, MARTHA S. *Instructor of Nursing*
B.S., Northwestern State University
- LOCKE, MAURINE⁴ *Instructor of Education*
M.S. in Ed., Lesley College
- LUMPKINS, BOB G. *Assistant Professor of Education*
Ed.D., North Texas State University
- MCCOLLUM, HOWARD P. *Associate Professor of Education*
Ed.S., George Peabody College for Teachers

- MOSELEY, ELIZABETH ANN *Instructor of Nursing*
M.S., Emory University
- MOSLEY, WALTER L. *Associate Professor of English*
Ph.D., Texas Christian University *Head, Department of Languages*
- MOTTET, GERTRUDE B. *Assistant Professor of Special Education*
M.A., Louisiana Tech University
- MUNS, NEDOM *Assistant Professor of Industrial Arts*
Ed.D., North Texas State University
- MURCHISON, DANIEL T.¹ *Lecturer in Business Law*
J.D., Tulane University
- MURPHY, RIVERS² *Assistant Professor of Art*
M.F.A., Texas Christian University
- NAHM, JANE C. *Associate Professor of Political Science*
M.A., George Washington University
- NELKEN, COLLEEN *Professor of Health, Physical Education and Recreation*
Pe.D., Indiana University
- NESOM, MARION *Assistant Professor of English*
M.A., Louisiana State University
- NICHOLS, ROBERT H.³ *Assistant Professor of Geography*
M.A., University of Oklahoma
- NICKEY, DAROTHY L. *Assistant Professor of Education*
B.S. in L.S., Louisiana State University
- NOLES, JOHN D. *Assistant Professor of Special Education*
M.S.W., Louisiana State University
- OLIVE, DAVID L. *Instructor of Special Education*
M.S., Memphis State University
- OLSON, CHARLES R. *Assistant Professor of English*
M.A., Ohio State University
- OLSON, PEARL¹ *Instructor of Mathematics*
M.S., Northwestern State University
- OUTLAND, RODERICK H. *Professor of Biological Sciences*
Ph.D., Vanderbilt University
- PATTON, ROBERT W. *Associate Professor of Health, Physical Education*
Ph.D., Florida State University *and Recreation*
- PAYNE, DELORES BECK⁴ *Assistant Professor of Education*
Ed.D., Northwestern State University
- PAYNE, KATHRYN *Instructor of Nursing*
M.S.N., Catholic University of America
- PENNY, CAROLYN *Assistant Professor of Special Education*
M.A., George Peabody College for Teachers
- PHILLIPS, THOMAS J. *Assistant Professor of Special Education*
M.S., University of Arkansas

¹Temporary part-time.²On leave, Spring, 1971.³On leave, 1970-1971.⁴Appointment effective January 23, 1971.

- PHILP, WILLIAM A. *Professor of Education*
Ed.D., University of Mississippi *Coordinator of Secondary Student Teaching*
- PINE, WALTER C. *Associate Professor of Mathematics*
M.S., Florida State University
- PINGREY, FRANCES R. *Assistant Professor of Nursing*
M.A., University of Denver
- PITT, DUDLEY R., JR. *Assistant Professor of Mathematics*
M.A., Louisiana State University
- POE, WILLIAM A. *Assistant Professor of History*
Ph.D., University of Alabama
- PORTER, CHARLES W. *Assistant Professor of History*
M.A., University of Arkansas
- POSEY, MARY L. *Assistant Professor of Education*
M.A. in Ed., Northwestern State University
- PRESSON, FRANKLIN I. *Assistant Professor of Journalism*
B.A., University of Arkansas
- PRESTON, ELAINE *Assistant Professor of Special Education*
M.S.W., Columbia University
- PRICE, ROBERT *Assistant Professor of Music*
M.Mus., University of Arkansas
- PROSSER, FRANK J. *Assistant Professor of Special Education*
M.S.W., Our Lady of the Lake College
- RANDLES, TRAVIS E. *Assistant Professor of Special Education*
M.S.W., Tulane University
- RAUSH, JOHN *Assistant Professor of Music*
M.Mus.Ed., Northwestern State University *Assistant Director of Bands*
- RAWSON, DONALD M. *Professor of History*
Ph.D., Vanderbilt University *Head, Department of History*
- RAWSON, VERA G. *Assistant Professor of Mathematics*
M.S., Northwestern State University
- REED, HOYT J. *Assistant Professor of Education*
Ed.D., McNeese State University *Director of Continuing Education*
- RICHIE, JEWELL M. *Assistant Professor of Health, Physical Education*
M.A. in Ed., Northwestern State University *and Recreation*
- RIED, GEORGE H.¹ *Instructor of Political Science*
M.A., Syracuse University
- RILEY, GRACE R. *Assistant Professor of Nursing*
M.S., Florida State University
- ROBERSON, MARY E. *Associate Professor of Home Economics*
M.A., Columbia University
- ROBERT, WILLIAM C. *Associate Professor of English*
M.A., Louisiana State University

¹Temporary part-time.

ROBERTS, MARY C.	Assistant Professor of Art
M.Ed., Northwestern State University	
ROBINSON, WALTER J.	Professor of Industrial Education
Ed.D., University of Missouri	Head, Department of Industrial Education and Technology
ROGER, ROBERT P.	Assistant Professor of Physics
Ph.D., Louisiana State University	Acting Head, Department of Physics
ROGERS, ILA M. ¹	Instructor of Nursing
B.S., Northwestern State University	
ROSE, RICHARD D.	Instructor of Music
M.Mus., Florida State University	
ROSENWASSER, FRIEDA	Assistant Professor of Nursing
M.S., Columbia University	
ROSS, JOAN	Instructor of Nursing
M.S., Columbia University	
RUCKER, MARGARET E.	Assistant Professor of Home Economics
Ph.D., Texas Woman's University	
RUDNICK, ABRAHAM H.	Instructor of Special Education
M.S., Northwestern State University	
RUE, JANELL F.	Assistant Professor of Business Education
M.A., George Peabody College for Teachers	and Office Administration
RYAN, DONALD E.	Associate Professor of Mathematics
Ph.D., University of Texas	
SANDERS, DANA ROY	Assistant Professor of Biological Sciences
Ph.D., Iowa State University	
SANDERS, MARGUERITE D. ²	Instructor of Education
M.Ed., Stephen F. Austin University	
SCHEXNIDER, RAY A.	Assistant Professor of Speech
M.A., Louisiana State University	
SCHROEDER, HANNA	Associate Professor of German
Ph.D., University of Colorado	
SCOGIN, H. DAVID	Associate Professor of Health, Physical Education and Recreation
Ph.D., University of Colorado	
SCOTT, MAXYNE	Assistant Professor of Music
C.A.S., Northern Illinois University	
SEWELL, WILLIA D.	Assistant Professor of Accounting
M.S., University of Alabama	
SHAFER, BILL	Assistant Professor of Educational Psychology and Guidance
Ph.D., East Texas State University	
SHAW, BILL W.	Professor of Industrial Education
Ed.D., University of Missouri	

¹Temporary appointment.

²Temporary part-time.

- SIMMONS, FRANCES J. *Instructor of Nursing*
M.Ed., Northwestern State University
- SIMMONS, JAMES *Assistant Professor of Health, Physical Education*
M.S. in Ed., Northwestern State University *and Recreation*
- SLACUM, DONALD S. *Associate Professor of Economics*
D.B.A., Mississippi State University *Head, Department of Economics*
- SMITH, J. ROBERT *Associate Professor of Music*
M.Mus., Eastman School of Music *Acting Head, Department of Music*
Director of Bands
- SMITH, JO R. *Assistant Professor of English*
M.A., Northwestern State University
- SNOWDEN, BARNARD F. *Assistant Professor of Philosophy*
M.A., Tulane University
- SOUTHERLAND, MAXINE *Assistant Professor of Home Economics*
M.S. in Ed., Northwestern State University
- SOUTHERLAND, THOMAS P. *Professor of Education*
Ed.D., Louisiana State University *Dean, College of Education*
- SPEARS, LARRY *Associate Professor of Chemistry*
Ph.D., University of Texas *Head, Department of Chemistry*
- SPIGENER, TOMMY¹ *Instructor of Music*
M.C.M., Baptist Theological Seminary
- STALLING, DICK T.² *Assistant Professor of Biological Sciences*
M.S.T., University of Missouri
- STEVENS, MELVIN H.³ *Assistant Professor of Agricultural Sciences*
M.S., Louisiana State University
- STEWART, GEORGE E. *Assistant Professor of Speech*
M.A., Abilene Christian College
- STEWART, RONALD W.⁴ *Assistant Professor of Accounting*
M.B.A., Louisiana Tech University; C.P.A.
- STOKES, GEORGE A. *Professor of Geography*
Ph.D., Louisiana State University *Dean, College of Liberal Arts*
- STOTHART, JAMES R. *Assistant Professor of Biological Sciences*
M.Ed., Northwestern State University
- STRINGER, GARY *Assistant Professor of English*
Ph.D., University of Oklahoma
- SULLIVAN, DARR F. (CAPTAIN) *Assistant Professor of Military Science*
B.A., University of Nebraska
- TATUM, CARLA T.¹ *Assistant Professor of Education*
M.A. in Ed., Northwestern State University
- TAYLOR, IRMA S. *Associate Professor of Speech*
M.A., University of Wisconsin

¹Temporary appointment.²On leave, 1970-1971.³On leave, Spring, 1971.⁴Appointment effective January 23, 1971.

- TAYLOR, MAXINE F. *Assistant Professor of History*
M.S.E., State College of Arkansas
- TEMPLE, AUSTIN *Assistant Professor of Mathematics*
M.A., Louisiana State University
- THAMES, EARL G. *Professor of Accounting*
Ph.D., University of Mississippi; C.P.A. *Head, Department of Accounting*
- THOMAS, CHARLES F. *Professor of Health, Physical Education and Recreation*
Ed.D., George Peabody College for Teachers *Vice President of Academic Affairs*
- THOMAS, SADIE G. *Instructor of Home Economics*
M.S., Northwestern State University
- THORN, JAMES C. *Assistant Professor of Art*
M.F.A., Texas Christian University
- TORGRIMSON, ELVA E.¹ *Instructor of English*
M.A. in Ed., Northwestern State University
- TORGRIMSON, PAUL *Professor of Music*
A.Mus.D., Eastman School of Music
- TORRES, GERTRUDE *Assistant Professor of Nursing*
M.A., Columbia University
- TOWNS, JOYCE L. *Instructor of Health, Physical Education and Recreation*
M.Mus., Louisiana State University
- TOWNSEND, DAVID *Professor of Economics and Business Administration*
Ph.D., Louisiana State University *Dean, College of Business*
- TOWNSEND, HAL E. *Associate Professor of Agricultural Sciences*
M.F., Louisiana State University
- TOWRY, H. N., JR. *Assistant Professor of Business Administration*
M.S., Oklahoma State University *and Business Education*
- TRETIK, RICHARD *Assistant Professor of Special Education*
Ph.D., Columbia University
- TRUSSELL, C. M.² *Instructor of Art*
B.A., Louisiana Tech University
- VEGA, ARMANDO *Instructor of Health, Physical Education and Recreation*
B.S., Pennsylvania State University
- VIERS, CHARLES E. *Assistant Professor of Biological Sciences*
Ph.D., University of Arizona
- WALTON, WILLIAM E. *Assistant Professor of Computer Science*
M.S., Louisiana Tech University *Assistant Director, Computing Center*
- WASKOM, JOHN D. *Associate Professor of Geology*
Ph.D., University of North Carolina *Head, Department of Geology*
- WEBBER, EVERETT *Assistant Professor of English*
M.A., University of Missouri

¹Temporary part-time.²Temporary appointment.

- WEBBER, OLGA *Instructor of English*
M.Ed., Northwestern State University
- WEBSTER, CHERRIE J.¹ *Instructor of Mathematics*
M.S., Northwestern State University
- WELLS, BARRON W. *Assistant Professor of Business Administration*
M.S. in Ed., Northwestern State University *and Business Education*
- WELLS, TOM H. *Associate Professor of History*
Ph.D., Emory University
- WERTELAERS, JOSEPH *Assistant Professor of French*
M.A., Wayne State University
- WEST, EDNA *Professor of Speech*
Ph.D., University of Wisconsin *Head, Department of Speech and Journalism*
- WHITEHEAD, OREN *Assistant Professor of Biological Sciences*
M.S., North Texas State University
- WHITEHEAD, THOMAS N. *Instructor of Education*
M.S., Boston University *Producer-Director of Instructional Television*
- WHITTINGTON, RUSSELL E. *Professor of Mathematics*
Ph.D., University of North Carolina *Head, Department of Mathematics*
- WILLIAMS, EUGENE *Assistant Professor of Business Administration*
Ph.D., University of Arkansas
- WILLIAMS, KENNETH L. *Assistant Professor of Biological Sciences*
Ph.D., Louisiana State University
- WILLIAMSON, JUNE *Assistant Professor of Nursing*
M.S., University of Alabama
- WOMMACK, CHARLES H. *Associate Professor of Industrial Education*
Ph.D., East Texas State University *Director of Graphic Arts and Office Services*
- WOODARD, DAISY C. *Assistant Professor of Special Education*
M.S.W., Tulane University
- WYNN, ROBERT *Associate Professor of Education*
Ed.D., Colorado State College *Coordinator of Elementary Student Teaching*

¹Temporary appointment.

LIBRARIES

MACKENZIE, DONALD N.	<i>Associate Professor of Library Science</i>
M.A., New York University	<i>Librarian</i>
BRIDGES, KATHERINE	<i>Assistant Professor of Library Science</i>
M.A., University of Texas	
BROWN, PHYLLIS L.	<i>Assistant Professor of Library Science</i>
M.Ed., Our Lady of the Lake College	
GREENE, CLAIRE H.	<i>Assistant Professor of Library Science</i>
M.S. in L.S., Louisiana State University	
HOLLIS,, MARY ELEANOR	<i>Assistant Professor of Library Science</i>
M.S. in L.S., University of Illinois	
LOFTIN, LEOLA H.	<i>Assistant Professor of Library Science</i>
B.S. in L.S., Louisiana State University	
MOORE, CELIA M.	<i>Assistant Professor of Library Science</i>
B.A. in L.S., University of Oklahoma	
WHITTINGTON, DIXIE	<i>Instructor of Library Science</i>
M.S. in L.S., University of North Carolina	
GEERS, BERNICE E.	<i>Librarian</i>
B.S. in L.S., Northeast Louisiana University	<i>Shreveport Campus</i>
DYSON, VALENTINE G. ¹	<i>Library Assistant</i>
GATES, LORENA ¹	<i>Library Assistant</i>
M.S. in L.S., Louisiana State University	
LEE, MILDRED SMITH ¹	<i>Library Assistant</i>
SHORE, EMILY L. ¹	<i>Library Assistant</i>
B.S. in L.S., Memphis State University	
SPEIR, STELLA W. ¹	<i>Library Assistant</i>
VIENNE, LINDA B. ¹	<i>Library Assistant</i>
M.S. in L.S., Louisiana State University	

¹Temporary appointment.

NORTHWESTERN LABORATORY SCHOOL

FOWLER, LEONARD F.	<i>Director</i>
Ed.D., University of Arkansas	
ALOST, ALMA R.	<i>Kindergarten</i>
M.A. in Ed., Northwestern State University	
BARNETT, DOROTHY	<i>Second Grade</i>
M.A., George Peabody College for Teachers	
BERRY, JIMMY D. ¹	<i>Sixth Grade</i>
M.A. in Ed., Northwestern State University	
BRICE, GERALDINE F.	<i>Fourth Grade</i>
M.Ed., University of Houston	
DAUGHDRIL, LUCILE A.	<i>Librarian</i>
M.S. in L.S., Louisiana State University	
FOWLER, MILDRED S.	<i>Eighth Grade</i>
M.Ed., University of Arkansas	
GALLOWAY, LYNN R.	<i>Third Grade</i>
Ed.S., Northwestern State University	
GIMBERT, ADA A.	<i>Second Grade</i>
M.A. in Ed., Northwestern State University	
GRAHAM, HELEN C.	<i>First Grade</i>
M.Ed., Louisiana State University	
JONES, JEWEL B.	<i>Fifth Grade</i>
M.A., Louisiana State University	
LEWIS, EDWINA M. ²	<i>Sixth Grade</i>
M.Ed., Northwestern State University	
MAYEAUX, EDWINA S.	<i>Fourth Grade</i>
M.A. in Ed., Northwestern State University	
MORGAN DELL T.	<i>Third Grade</i>
M.A. in Ed., Northwestern State University	
SCARBOROUGH, GLENNIE D.	<i>Fifth Grade</i>
M.Ed., Northwestern State University	
SCOGGINS, LYNELLE	<i>First Grade</i>
M.A. in Ed., Northwestern State University	
TALTON, CAROLYN F. ²	<i>Seventh Grade</i>
M.A., Northwestern State University	
WELLER, MARY F.	<i>Sixth Grade</i>
M.Ed., Louisiana State University	

¹On leave, 1970-1971.²Temporary appointment.

DIVISION OF INTERCOLLEGIATE ENTERPRISES

GOSSETT, AL GLENN	<i>Athletic Director</i>
M.S., Northwestern State University	<i>Head Football and Track Coach</i>
BEASLEY, DONALD	<i>Head Golf Coach</i>
M.S., Northwestern State University	<i>Assistant Basketball Coach</i>
DOHERTY, GEORGE E.	<i>Assistant Football Coach</i>
M.S., George Peabody College for Teachers	
DYES, JERRY	<i>Assistant Track Coach</i>
B.S., Abilene Christian College	
EMMONS, JOHNNIE	<i>Head Tennis Coach</i>
M.S., Louisiana Tech University	<i>Assistant Football Coach</i>
HILDEBRAND, TYNES	<i>Head Basketball Coach</i>
M.S., Northwestern State University	
KNECHT, EUGENE	<i>Assistant Football Coach</i>
M.S., Northwestern State University	
ROPP, JOHN D.	<i>Assistant Football Coach</i>
M.S., Northwestern State University	
SMITH, HERBERT T.	<i>Head Baseball Coach</i>
M.S., Northwestern State University	

GENERAL INFORMATION

HISTORY OF THE UNIVERSITY

Northwestern State University of Louisiana stands on ground that has been dedicated to learning for more than a hundred years. Before the Civil War a portion of the present campus was the property of the Bullard family of Natchitoches, Louisiana. As early as 1856 the Bullard mansion was in use as a convent by the Religious of the Society of the Sacred Heart. The following year a school building was erected at the convent, and in 1884 the property was purchased by the town and parish of Natchitoches. Three of the 4 great white columns that supported the east gable of the Bullard mansion still stand on "the Hill," and often serve as unofficial symbols of the University.

When the Louisiana legislature created a Louisiana Normal School in 1884, Captain Leopold Caspari, a member of the legislature, offered the site as a campus for the School with the anticipated approval of the citizens of Natchitoches. The offer was accepted, and from 1885 to 1918 the Normal School offered 2 years of study for the training of teachers. In 1918 the School became Louisiana State Normal College, offering 4 years of academic work.

The functions and curricula of the State Normal College grew steadily to meet the increasingly diverse requirements of Louisiana's expanding population. In 1944 the institution's excellent service in its broader role was given formal recognition in a new title, Northwestern State College of Louisiana.

For 26 years Northwestern State College maintained and strengthened its long tradition of leadership in public service and academic excellence, becoming, in 1954, the first college under the jurisdiction of the State Board of Education to offer the master's degree. The Specialist in Education degree was first offered in 1966, and the Doctor of Education and the Doctor of Philosophy in Education degrees were authorized in 1967.

On June 18, 1970, Governor John J. McKeithen signed the legislative act which brought the old campus its greatest distinction by changing its title to Northwestern State University of Louisiana.

Now nearing a century of productive service to the people of the state, the University comprises the colleges of Basic Studies, Business, Education, Liberal Arts, Nursing, and Science and Technology, the Graduate School, and a broad array of auxiliary instructional and supporting agencies.

LOCATION

The University occupies an area of more than 900 acres immediately west of Natchitoches, Louisiana. The campus, extending over pine hill and river bottom lands, is acknowledged to be one of the most spacious and attractive in the South.

Natchitoches, founded by the French in 1714, is the oldest permanent settlement in the Louisiana Purchase Territory. Today a modern city of about 16,000, Natchitoches still retains many traces of its ancient colonial heritage. The city is located in the northwestern portion of the state, about 45 miles northwest of Alexandria and some 65 miles southeast of Shreveport, Louisiana's second largest city.

Natchitoches has an excellent system of public schools, numerous churches, a large modern hospital, and a progressive municipal government. Situated on the banks of beautiful Cane River Lake, and lying in the heart of Louisiana's lake and forest country, the city rightly may be described as colorful and unique. Living conditions are particularly attractive to families who wish to educate their children and enjoy the many other advantages of life in a university town.

The College of Nursing maintains a clinical campus in Shreveport for juniors and seniors majoring in Nursing. Located on this campus are institu-

tional facilities, student housing, and faculty and staff. College of Education student teachers and College of Science and Technology majors in Medical Technology and Radiological Technology may reside on this campus.

PURPOSE

Northwestern State University sees its purpose as offering educational, cultural, and consultative services primarily to the people of this section of the state. Regionalism notwithstanding, the University endeavors to give its students foundations in three broad areas: the educational tools—the knowledge, skills, understanding and attitudes—necessary to function successfully in occupational fields; the appreciations needed to achieve greater happiness and satisfaction from life; and the service concept of responsibility to others.

Implementing such purposes, the University strives

1. To sustain an environment in which respect for the integrity of the individual is shared mutually by students and faculty
2. To offer students the opportunity for higher education in career fields
3. To offer students a general education essential for understanding man and his environment and for promoting self-understanding and personal fulfillment
4. To develop citizens with understanding and appreciation of the roles of the individual and the group in maintaining a democratic society
5. To provide educational offerings that will stimulate intellectual curiosity and self-discipline, and encourage faculty and student research
6. To offer basic curricula of a quality that will prepare and motivate students to pursue advanced study
7. To offer appropriate cultural and consultative services beyond the campus environs
8. To provide faculty members the environment and educational tools conducive to continued intellectual development, effective production, and satisfaction in work.

DEGREES

Act 173 of the General Assembly of Louisiana for the year 1918 authorized the State Normal College, now Northwestern State University, to confer the baccalaureate degree on all students who complete 1 of the 4-year curricula. Students completing a teacher-education curriculum are qualified, under the laws of Louisiana and the regulations of the State Board of Education, to teach in the elementary or secondary schools of the state.

Two-year Associate Degree programs are offered in the following areas: chemical technology, drafting technology, electronics technology, merchandising, printing technology, secretarial administration, teacher aide, tool and die design technology, and woodworking technology.

In the College of Business the Bachelor of Science degree is awarded to all graduates in the several curricula.

In the College of Education graduates of the following curricula are granted the Bachelor of Arts degree: art, kindergarten, languages, librarianship, primary and upper elementary education, social science, and speech. Graduates in the music curriculum are awarded the Bachelor of Music Education degree; all others are awarded the Bachelor of Science degree.

In the College of Liberal Arts the Bachelor of Music degree is granted to graduates in 2 music curricula; the Bachelor of Science degree to some graduates in the psychology curriculum; and the Bachelor of Arts degree to all others.

In the College of Nursing the Bachelor of Science degree is awarded.

In the College of Science and Technology all graduates receive the Bachelor of Science degree.

The Master of Arts degree is awarded in art, English, geography, history, social sciences (composite program), and speech.

The Master of Arts in Education is awarded in English, social sciences, and speech.

The Master of Arts in Rehabilitation Counseling is an inter-disciplinary degree.

The Master of Arts in Special Education is awarded in speech pathology.

The Master of Business Administration may be earned in the departments of the College of Business.

The Master of Education is granted in educational media, elementary school administration, elementary teaching, guidance—elementary and secondary, health and physical education, reading specialist—elementary and secondary, secondary school administration, secondary teaching, special education, and student personnel services.

The Master of Music Education and Master of Music are awarded in the Department of Music.

The Master of Science degree is awarded in the following curricula: botany, chemistry, geology, electronics engineering, technology, mathematics, microbiology, natural sciences, physics, psychology, and zoology.

The Master of Science in Education is granted in biology, business, chemistry, distributive education, early childhood education, home economics, industrial arts education, mathematics, outdoor education, and physics.

The Specialist in Education degree is awarded in elementary and secondary school counseling and guidance, elementary school principalship, elementary teaching, health and physical education, reading, secondary school principalship, and secondary teaching.

The Doctor of Education degree is offered in elementary education, health and physical education, and secondary education.

The Doctor of Philosophy in Education degree is awarded in health and physical education.

ACCREDITATION

Northwestern State University is a member in good standing of the Southern Association of Colleges and Secondary Schools, the Association of American Colleges, and American Association of Colleges for Teacher Education. The Graduate School is a member of the Council of Graduate Schools in the United States. All programs for teachers at the bachelor's and master's levels are accredited by the National Council for Accreditation of Teacher Education. The College of Nursing is fully accredited by the Louisiana State Board of Nurse Examiners and the National League for Nursing. The Department of Music is a full member of the National Association of Schools of Music.

Northwestern State University accepts all students, regardless of race, creed, or color, who meet the admission standards prescribed by the State Board of Education.

DIVISION OF CONTINUING EDUCATION

The Division of Continuing Education was established at Northwestern State University in 1970. Its primary function is to meet the educational needs of persons who may not be regularly enrolled students; academic departments on the Natchitoches campus provide, through the Division, faculty to teach courses at other sites.

Specific course offerings, conferences, workshops, institutes, and similar educational presentations in various fields may be requested by business, indus-

trial, or civic organizations, government agencies, school systems, or groups of individuals who have a common interest.

Inquiries concerning Division capabilities, requests for assistance in planning, and applications for offerings should be addressed to the Director, Division of Continuing Education, Northwestern State University. Interested persons may visit Division offices in Caldwell Hall (Natchitoches campus) at any time.

RUSSELL LIBRARY

The Russell Library was constructed in 1936 and renovated and expanded in 1956. It has, since 1957, been operated on the open-stack plan. There is seating space for 350 students, with some facilities for individual study and research.

The book collection consists of approximately 170,000 books and bound periodicals. The Library subscribes to some 1,800 periodicals and is an official depository for U.S. and Louisiana documents. The Library also contains about 10,000 reels of microfilm and large collections of microcards and microfiches. A special Education file is maintained for pamphlet and curriculum materials.

An extensive special collection of Louisiana books and archival material is maintained, including groups of manuscripts dealing with the history of North Louisiana.

A closed-stack current periodicals room is maintained for unbound issues of magazines and for all microcards and microfiches. Xerox copying service at 10 cents per page is provided.

The College of Nursing operates a branch library in connection with its clinical campus in Shreveport.

The Library staff consists of 21 persons. Some 80 to 90 student assistants are usually assigned to work in the Library.

The annual LIBRARY HANDBOOK sets forth current regulations for all student and faculty users. Special notes of interest to faculty members appear in the FACULTY HANDBOOK and in bulletins issued from time to time.

Students obtain library cards at the Circulation Desk of the Library by showing current I.D. cards or postal box receipts. A processing fee of \$3 is added to the cost of each book lost. Grades will be withheld and transcripts attached in cases of persistent failure to clear overdue and lost book accounts.

LABORATORY SCHOOLS

Pre-student teaching laboratory experience at the elementary and secondary levels is provided in the Northwestern Elementary School, Northwestern Experimental School, Natchitoches-Central High School, East Natchitoches and Northwestern junior high schools, and the George Parks and M. R. Weaver elementary schools of Natchitoches.

STUDENT TEACHING CENTERS

Student teachers are assigned in specific subject matter areas in Rapides and Winn parishes. Cooperating schools in Rapides Parish include Alexandria, Bolton, and Pineville senior high schools, Brame Junior High and Nachmann Elementary schools; those in Winn Parish are Winnfield High and Winnfield Junior High schools.

A large number of student teaching assignments are made in the Caddo-Bossier parish area. Cooperating schools in Shreveport include Fair Park and Woodlawn high schools, Linwood and Oak Terrace junior high schools, and Forest Hill, Riverside, Southern Hills, Stoner Hill, Summer Grove, and Westwood elementary schools. Cooperating schools in Bossier City are Airline and Bossier high schools and Bossier Elementary School.

ARMY RESERVE OFFICERS TRAINING CORPS

Army ROTC was established at Northwestern State University in 1950. The mission of the Corps is to train qualified male students to become officers in the United States Army. Participation in all ROTC programs is entirely voluntary. Detailed descriptions of programs, scholarships, course offerings, and related matters appear elsewhere in this Catalogue (see Department of Military Science).

Inquires concerning ROTC programs and activities may be directed to the Department of Military Science, Northwestern State University. Families and friends of prospective male students and those presently enrolled are invited to visit the ROTC Armory at any time. All ceremonies are open to the public.

BUREAU OF FINANCIAL AID AND RESEARCH

The Bureau of Financial Aid and Research supervises and administers all forms of student financial aid. Student financial aid includes all scholarships awarded to students attending Northwestern State University, National Defense Education Act awards of loans and grants, Louisiana Higher Education Assistance Commission loans, and the College Work-Study Program of student employment. Functions of the Bureau in the areas of research include conduct of institutional research and supervision and administration of federal and non-federal research grants and programs.

Offices of the Bureau of Financial Aid and Research are located in rooms 208, 209, and 210 of Roy Hall.

THE COMPUTING CENTER

The Computing Center is a University-wide service facility located in the Arts and Sciences Building. The basis of the Center is a UNIVAC 9400 Real Time computing system which has 98K bytes of main memory, 58 million bytes of auxiliary disk storage, 4 remote terminals, magnetic tape drives, and off-line electronic data processing equipment.

The Center serves the University principally as an instructional facility, provides computing support for student, faculty, and institutional research, and performs various machine computation and tabulating operations as required by the University. Center personnel are available for consultation concerning computer capabilities.

The Computing Center is operated partly on an open shop basis and all qualified students, faculty, and staff can schedule time on the computer. The general public is welcome to visit the Center during normal school hours.

DEPARTMENT OF EDUCATIONAL MEDIA CAMPUS SERVICES CENTER

The Department of Educational Media, through the Campus Services Center, offers a variety of services to the University and to all public schools in Louisiana. These include classroom projection, equipment maintenance, and graphic production for display and projection in instruction, audio and video recording, and television program production.

The Regional Film Library maintained at the Center contains more than 4,000 16mm motion picture films. These are available without charge to all public schools in the state; borrowers pay only return postage. The films cover a wide variety of subjects and are adapted to all levels of instruction.

The Department of Educational Media also operates a campus closed-circuit television network. The system, first of its kind in Louisiana, comprises a central control room, production studio, and video recording-playback facilities. The central studios are connected by cable to all classroom buildings on the campus. The television network is used for classroom instruction, University public relations, television production instruction, and, on occasion, entertainment activities.

The Campus Services Center, including the Film Library, is located in the Arts and Sciences Building. Requests for information concerning the nature and availability of services and materials offered by the Center may be addressed to the Department of Educational Media, Northwestern State University.

CENTER FOR EXPERIMENTAL RESEARCH AND DEVELOPMENT IN LEARNING AND TEACHING

The Center was established in 1961. Its major purpose is to discover, experimentally validate and put to work in Louisiana the most efficient, economical procedures for learning and teaching. The Center operates a modern Learning Laboratory for research.

The promising new concept of "Institutional Systems Development" is based upon Research Center experimentation. At Northwestern State University experimental teaching with closed-circuit television, programmed instruction, team teaching, and other advanced procedures has produced significant results. It is believed that this Center is becoming a distinct asset to Louisiana, educationally and economically.

SPECIAL EDUCATION CENTER

The Special Education Center, in cooperation with the State Department of Education, renders educational diagnostic services to the exceptional children of Caddo, DeSoto, Grant, LaSalle, Natchitoches, Rapides, Red River, Sabine, and Winn parishes. The Caddo Branch of the Center is located at 2720 Hearne Avenue, Shreveport. The Rapides Branch is situated at Rosenthal School, Alexandria, and a third branch is located in Winnfield.

Referrals to the Center are made by the liaison person representing the superintendent of schools in each parish. After diagnosis, the Center may suggest educational and other adjustments for the child concerned.

Children who may benefit from such diagnosis include the blind and partially seeing, deaf and hard of hearing, crippled and those with special health problems, speech defective, emotionally disturbed and socially maladjusted, the very able and the mentally retarded.

The Special Education Center, as the Department of Special Education, is responsible for the curricula for state certification in special education, utilizing some course offerings in other departments. The curricula enable an undergraduate or graduate to meet Louisiana certification requirements in 1 or more of the following fields: teacher of mentally retarded children, teacher of socially maladjusted and emotionally disturbed children, and teacher of speech defective and hard of hearing children. The graduate program permits a student to meet the Louisiana requirements for certification as a teacher of speech and hearing therapy, as well as the academic requirements for certification by the American Speech and Hearing Association. The Master of Arts degree is offered in rehabilitation counseling.

SPEECH AND HEARING REHABILITATION CENTER

The Department of Special Education, in cooperation with the Louisiana Division of Vocational Rehabilitation, provides a clinical resource center for evaluation and treatment of speech and hearing disorders in persons who are rehabilitation clients of the Vocational Rehabilitation Division.

EXTRA-INSTRUCTIONAL SERVICES

The University maintains a clinic for the correction of speech defects and rehabilitation for the hard of hearing including teaching of speech reading. University students may avail themselves of this service upon the recommendation of any faculty member or at their own request. No fee is charged.

Other special services available to students are speech diagnosis and correction, hearing evaluation, reading and vision diagnosis and reading correc-

tion, recreational and corrective physical education, and general health and infirmiry services.

In order that students may gain a greater appreciation and understanding of the fine arts, the University and the City of Natchitoches sponsor the Artist Series. Notable performers in music, drama, and related fields are brought to the campus during the school year. Ample opportunities for social, religious, and other activities are provided.

THE LOUISIANA STUDIES INSTITUTE

The Louisiana Studies Institute is a non-profit organization dedicated to the encouragement of research in all fields dealing primarily with Louisiana and its regional setting. The Institute engages in a variety of activities, the most important being the maintenance of a photographic library, the collection of archival materials, the publication of monographs, and the issue of a quarterly journal, **Louisiana Studies**. Operations of the Louisiana Studies Institute are guided by an Executive Board drawn from the faculties of several departments. Further information may be secured from the Director, Louisiana Studies Institute, Northwestern State University.

THE WILLIAMSON MUSEUM

The Williamson Museum was founded by the Northwestern State University Alumni Association in 1921. Its name honors the late George Williamson, Professor Emeritus of Biology, who donated his extensive and invaluable collections to the Museum.

Specializing in the prehistory and geography of Louisiana and adjacent areas, the Museum strives to meet the informational and research needs of students, faculty, and the general public. Study collections are available to qualified researchers. Exhibits of interest to the campus and wider communities are open during normal school hours.

Museum facilities in the Arts and Sciences Building comprise a spacious exhibit hall, storerooms, research laboratory, Curator's office, and lecture room.

Contributions to the Museum collections, as gifts or loans, are solicited. Prospective donors should contact Mr. Hiram F. Gregory, Curator, Williamson Museum, Northwestern State University.

RESEARCH INSTITUTES

Institutes for research in Business, Education, the Humanities, and Science were formed at Northwestern State University in 1968. They are intended to encourage and implement faculty-student research as a necessary and desirable scholarly activity in the graduate program laeding to worthy contributions to the store of knowledge.

While the University provides support for research programs to the extent possible, additional support is sought from industry, the business community, public and private granting agencies, and from other external sources. Among the more important functions of the institutes are the identification of such sources and the procurement of support from them.

General policy for the governance of research activities in the several institutes is prescribed by the Research Council. Information concerning the activities and capabilities of the various institutes may be secured from their directors or from the Director of Research, Bureau of Financial Aid and Research, Northwestern State University.

SCHOOL PLANNING LABORATORY

The School Planning Laboratory offers assistance to school districts in all aspects of the school plant planning and building process. Specific services include: conducting surveys to determine current and anticipated educational requirements; developing master plans for the entire district; programming and writing educational specifications for specific school plants; working with

architects in interpreting educational specifications; conducting in-service programs for teachers in utilization of school plants and equipment.

The services of the Laboratory begin with the assessment of needs and development of long-range plans and continue through the planning, construction, and utilization of the school plant. Advisory services are provided to insure functional curriculum planning, programming of spaces for learning, consideration of educational equipment and learning resources, and assistance to the architect in interpreting educational specifications. A comprehensive program of public information is provided in districts where schools are being planned.

DIVISION OF INFORMATIONAL SERVICES

The Division of Informational Services transmits to the mass media all news releases pertaining to Northwestern State University students and faculty, and issues all public announcements of University activities, programs, and policies. The Division also edits the alumni paper, ALUMNI NEWS, publishes a monthly newsletter and a weekly calendar of campus events, and prepares most printed materials distributed by the University.

The Division comprises the University publications office, photographic services, sports information office, and the News Bureau. Division personnel are available to interested University departments for consultation on the preparation of brochures and similar materials.

Requests for information on the University should be addressed to the Director of Informational Services, Northwestern State University. News media representatives are invited to visit or call Division offices at any time.

THE PLACEMENT SERVICE

The Placement Service is maintained by Northwestern State University for the benefit of its students and alumni. Many employers in business, industry, government, and the teaching profession visit the University for the purpose of recruiting personnel. The Placement Service arranges interviews for prospective graduates and alumni who wish to contact these employers. This service is performed without charge.

The Placement Service maintains a confidential file of candidates for positions which is made available to employers upon request. All seniors should register with the Service as soon as possible after the beginning of their senior year or at any time thereafter. Seniors in the College of Education are advised to register with the Placement Service as soon as their student teaching assignment has been made.

Offices of the Placement Service are located in the Student Union.

SPEAKERS BUREAU

The University will furnish, from its faculty and staff, speakers for commencement exercises, civic programs, high school career days, banquets, and similar occasions. The faculty includes persons highly qualified in many fields who are available for lectures, talks, and consultations with such gatherings as school clubs and classes, civic organizations, and professional groups.

Superintendents and principals of schools, and any others who may be interested, are invited to avail themselves of this service at any time. Requests for speakers should be addressed to the Director of Informational Services, Northwestern State University.

BUILDINGS

The principal classroom buildings on the main campus are the Art Center, Arts and Sciences Building, Biological Sciences Building, Bullard Hall, Business Administration Building, Caldwell Hall, Easton Hall, Fine Arts Building, Fournet Hall, Graduate Health and Physical Education Building, Health and Physical Education Major's Building, Home Economics Building, Industrial Education Building, Teacher Education Center, and Williamson Hall. Some

classrooms are located in Prather Coliseum, the ROTC Armory, and Russell Library.

Residential buildings for women include Audubon, Caddo, Carondelet, Louisiana, Morris, Sabine, and Varnado halls.

Dormitories for men are Bossier, Caspari, Natchitoches, North, Prudhomme, Rapides, South, and West halls. Additional rooms are located in Demon Stadium.

Sixty-four apartments for married students are provided on the campus.

Other campus buildings include the Agricultural Accessory Building, Auto Shop, Bienville Hall, Campus Security Center, Centrex Telephone Center, Chopin Hall, farm buildings, Home Management House, Iberville Dining Hall, Infirmary, Natchitoches High School and Gymnasium, Northwestern Junior High School, Nesom Natatorium, Post Office Building, President's Cottage, Roy Hall (administration building), St. Denis Dining Hall, Student Union, Trade School, Trisler Power Plant, Warehouse, and several fraternity and sorority houses.

THE POST OFFICE

The University Post Office is a substation of the Natchitoches Post Office. All University mail should be marked "Northwestern State University." The University Post Office is prepared to render nearly all services obtained at the downtown post office. The zip code for Natchitoches is 71457.

UNIVERSITY PUBLICATIONS

The publications of Northwestern State University are the annual catalogues, summer bulletins, and supplements.

LOUISIANA STUDIES is a quarterly journal published by the Louisiana Studies Institute.

The alumni magazine, ALUMNI COLUMNS, is published monthly during the academic year.

The student body publishes the POTPOURRI (the University annual) and the CURRENT SAUCE (a weekly newspaper).

ACADEMIC REGULATIONS AND POLICIES

UNDERGRADUATE ADMISSION REQUIREMENTS

1. Any high school graduate will be considered for admission if the secondary school from which he graduated is approved by the Louisiana State Department of Education or by a recognized accrediting agency.

2. Applicants for admission who are graduates of unapproved secondary schools may be admitted as regular students by examination. Mature students 21 years of age or older who are not high school graduates may be admitted on scholastic probation as special students, subject to the following regulations:

a. They must present satisfactory evidence to the academic dean concerned that they are qualified to do the work in the field they wish to enter.

b. They are subject to all University rules related to registration, class attendance, discipline, and scholarship.

c. They may not become candidates for degrees until all entrance requirements have been fulfilled.

3. Every applicant for admission must complete the forms required by the Registrar, reporting all information truthfully and in full. Any high school graduate must have his credentials forwarded to the Registrar by his high school principal.

4. **An applicant for admission from another institution must submit an official original transcript of record from each college attended prior to the beginning of the semester in which he wishes to enter.** This transcript must be completed and signed by an authorized person, must be mailed directly to the Registrar, and must not come through the hands of the candidate.

No credit earned in institutions not approved by accrediting agencies is accepted without the consent of the Admissions, Credits, and Graduation Sub-Council.

No credit will be granted for work done by any student anywhere while he is under official suspension from any educational institution.

No transfer student will be admitted if he is ineligible to re-enter the institution which he formerly attended; any student on probation at such institution will be accepted at Northwestern State University only on probation. Any transfer student whose scholastic average is such that he would have been on probation if his credits had been earned at Northwestern State University will be admitted only on probation.

No transfer student may enroll in the College of Education if he is ineligible to continue in the school of education in which he was last enrolled.

5. Applicants for the College of Nursing should refer to the College of Nursing Bulletin for special admission requirements.

6. Applicants for the Graduate School should refer to the Graduate School Bulletin or the Graduate School section of this Catalogue for admission requirements.

7. Applicants for admission to the Summer School are subject to the same regulations which apply to those seeking admission to the University in the regular sessions, with this exception: A candidate for admission by transfer from another institution who does not plan to continue in Northwestern State University in the regular session may submit a "letter of good standing," from the last college attended in lieu of the customarily required college transcript(s).

8. While the University does not base eligibility for admission upon test scores, all entering freshmen and new transfer students with fewer than 3 semester hours of credit in English composition and 3 semester hours of credit in mathematics must take the American College Testing (ACT) Pro-

gram tests. The test scores must be sent from American College Testing Program to the Department of Testing, Northwestern State University (University Code—1600) before registration. If the scores have not been received from ACT at the beginning of registration the student will be required to retake the tests before being permitted to register. These tests are given at designated centers throughout the United States (and in certain foreign countries) on 5 established dates during the year—October, December, February, April, and July. Application for the tests must be received by the ACT Registration Unit, P.O. Box 414, Iowa City, Iowa 52240, approximately 5 weeks in advance of the test date. Detailed information and application forms may be obtained from high school principals or counselors or by writing directly to ACT Publication, Box 168, Iowa City, Iowa 52240.

It is most important that the student plan well ahead and take the ACT tests early enough for his scores to be received by the University prior to his enrollment. Students are urged to take the tests at least 60 days prior to the anticipated date of enrollment. The results of the tests are used to determine placement in the basic subjects and to provide information to the faculty and staff who assist students in planning their programs.

REGISTRATION IN A CURRICULUM

Each annual University Catalogue becomes effective at the opening of the summer session. It prescribes in detail the requirements for graduation in all curricula offered by the University. Each student entering Northwestern must register in a curriculum, and in order to graduate must complete satisfactorily the work required as described in the catalogue which is in effect at the time he registers in that curriculum or the 1 in effect at the time he completes degree requirements. All freshmen and all transfer students who have earned less than 30 semester hours of credit must enroll in the College of Basic Studies. They may register in the General Curriculum or another curriculum of their choice.

If a student transfers to another institution or to another curriculum within Northwestern State University for 1 regular semester or longer and then returns to Northwestern or to his original curriculum, he will be required to complete the work prescribed in the catalogue which is in effect at the time of his return.

A student who enters an approved curriculum is expected to complete the work required in that curriculum within 7 years. After that time he may become subject to current catalogue requirements. Exceptions to this requirement may result from actions taken by authorities higher than the University and may arise in certain cases involving teacher certification.

GENERAL REQUIREMENTS FOR GRADUATION

In order to earn a bachelor's degree, a student must accomplish the following:

1. Complete an approved curriculum.
2. Earn at least a C (2.0) average on all hours pursued in his major field and in his minor field, if a minor is required.
3. Earn at least a C average on all hours pursued and on all hours pursued at Northwestern State University. A grade of F received in a course taken at Northwestern State University can be removed only at Northwestern State University.
4. Complete satisfactorily the required orientation program and Political Science 450.
5. Fulfill the residence requirement.
6. Complete satisfactorily all core and special requirements specified by the College in which he is enrolled.
7. Clear all University accounts.

ADMISSION AND COUNSELING OF FOREIGN STUDENTS

Any properly qualified foreign national may be admitted to Northwestern State University on the following conditions:

1. Each applicant for admission must submit the following:
 - a. All forms required by the Registrar.
 - b. An official transcript of his studies, showing satisfactory completion of the recognized equivalent of a United States high school course. All transcripts must be in English.
 - c. An unretouched photograph.
 - d. A complete physical description, including race and color.
 - e. A statement of curriculum preference and desired date of entry.
 - f. A Test Of English As A Foreign Language (TOEFL) with a minimum score of 450.
2. Each applicant must pay the non-resident student fee of \$315 per semester (\$157.50 per summer session).
3. Each applicant must pay the required \$25 room deposit.
4. Each applicant must bring with him a minimum sum of \$500 to insure his ability to meet all financial obligations. **No foreign student will be allowed to register until evidence of the possession of these funds has been presented to the Registrar.**

The applicant's credentials should give evidence of good moral character, of sound mental as well as physical health, and of release without prejudice from any educational institution previously attended. Admission without examination will be granted to graduates of secondary schools accredited by the universities of their own countries. In special emergencies a student may be admitted provisionally pending the arrival of verifying credentials. All information and supporting documents requested must be furnished. Eligible students may apply for financial aid from the Rowe Fund. Applications for admission should be received at least a month prior to the opening of the term in which the student expects to enter.

All foreign students are required to take courses in English as a Foreign Language unless they are excused by the Head of Department of Testing. Qualified students may be admitted to regular English courses. The courses in English as a Foreign Language may be used as electives in the various 4-year curricula, but may not be substituted for any English courses required for graduation.

The services of the Speech Clinic are available to all foreign students to assist them in their development of proficiency with spoken English.

Any foreign student who does not graduate will, at his request, be furnished a properly certified transcript or letter listing all courses he has completed.

All correspondence should be directed to the Registrar, Northwestern State University, Natchitoches, Louisiana. Upon arrival at the University, all foreign students must report to the Registrar.

POLICIES ON CREDITS GRANTED TO VETERANS

Veterans with at least 1 year of active service, except majors in health and physical education, may be allowed a maximum of 7 semester hours of credit in health and physical education and 1 hour of credit in Political Science 450 in accordance with policies recommended by the American Council on Education. Veterans should submit official copies of service records to the Registrar during the first semester of attendance.

To receive credit for work done in service schools, veterans must submit official copies of service records to the Registrar during the first semester of attendance. These records must so identify the courses completed as to enable the Registrar to locate them in the Guide to the Evaluation of Educational Experience in the Armed Forces, prepared by the American Council on

Education. The amount of such credit, if any, which may be counted toward a degree in a particular curriculum is left to the discretion of the dean concerned.

A student may receive some credit for all or part of the basic Military Science Course through prior military service. Interested students should contact the Professor of Military Science prior to registration.

ORIENTATION

All freshmen and transfer students are required to schedule orientation during their first period of enrollment. Satisfactory completion of the course or courses is required for graduation in all curricula.

Students who earn credit in Orientation 102 before taking Orientation 101 are not required to take 101, but will have 2 semester hours added to the requirements for a degree. Students who take 102 after having earned credit in 101 will have 3 semester hours added to requirements for a degree. Orientation 103 is required of all students enrolled in the General Curriculum, and adds 1 hour to degree requirements.

FRESHMAN ENGLISH

Beginning with the first semester of their enrollment at Northwestern State University, all freshmen students and all transfer students who have not completed English 101 and 102 must pursue the freshman English courses consecutively until successfully completed.

MAXIMUM AND MINIMUM WORK

The maximum amount of course work for which a student may register in any 1 regular semester is 21 semester hours, at least 1 of which must be an activity course. The minimum student load is 12 semester hours, unless the student is a candidate for graduation with fewer than 12 hours remaining to be taken or is pursuing a curriculum which requires less than 12 hours during that semester.

In special cases, the student may secure from his academic dean permission to schedule a course load greater than the maximum or less than the minimum.

LATE REGISTRATION

Except under special conditions, no student is permitted to register after 1 week of a regular semester or after the first week of a summer session.

GENERAL CURRICULUM

Students ready to enter the University without having decided on a major area of study are encouraged to enroll in the General Curriculum. This program is designed to provide special assistance to beginning students while they are in the process of selecting a major field. Students in the General Curriculum register in the College of Basic Studies and are advised by personnel of the Department of Counseling. The General Curriculum is described in detail elsewhere in this Catalogue (see College of Basic Studies).

ADVANCED STANDING EXAMINATIONS

Undergraduate students may receive advanced standing as indicated below. Administrative guidance for students who desire to take advanced standing examinations is provided by the Department of Testing.

1. **Engineering Drawing:** students who have earned 2 units in drafting or mechanical drawing in high school or the equivalent of 2 units in a vocational school may take an examination for advanced standing in engineering drawing. Those students who on the basis of their test scores are permitted to skip a course will receive credit for the course skipped provided they complete the course in which they are placed with a grade of C or better. The

grade recorded for the course skipped will be the same as the grade earned in the course in which the student was placed.

2. English: students who have had no previous college English and who on the basis of their placement test scores are permitted to skip English 101 or 101 and 102 will receive credit for the course(s) skipped provided they complete the English course in which they are placed with a grade of C or better. The grade(s) recorded for the course(s) skipped will be the same as the grade earned in the course in which the student was placed.

3. Foreign Languages: students may take an examination for advanced standing in a foreign language in which they earned 2 or more high school units. Those students who on the basis of their test scores are permitted to skip a course will receive credit for the course(s) skipped provided they complete the course in which they are placed with a grade of C or better. The grade(s) recorded for the course(s) skipped will be the same as the grade earned in the course in which the student was placed.

4. Mathematics: students who have had no previous college mathematics and who on the basis of their placement test scores are permitted to skip Mathematics 103 and/or Mathematics 109 will receive credit for the course(s) skipped. Students may receive credit for 103 upon the completion of Mathematics 109 with a grade of C or better. Students must complete Mathematics 110 with a grade of C or better in order to receive credit for Mathematics 109. The grade(s) recorded for the course(s) skipped will be the same as the grade earned in the course taken to validate credit in the course(s) skipped.

5. Office Administration: students who have earned 1-2 units in typewriting or stenography in high school or the equivalent of 1-2 units in a vocational school may take an examination for advanced standing in office administration. Those students who on the basis of their test scores are permitted to skip either Office Administration 101, 102, 201, and 202 or any combination of these courses will receive credit for the course(s) skipped provided they complete the Office Administration course in which they are placed with a grade of C or better. The grade(s) recorded for the course(s) skipped will be the same as the grade earned in the course in which the student is placed.

SEMESTER AND MID-SEMESTER EXAMINATIONS

Final examinations are scheduled at the end of each regular semester and summer session. Any deviation from the published examination schedule must have the approval of the appropriate academic dean.

No student is to be exempted from a final examination. Absence from a final examination, except in cases of unusual emergency, will be construed and recorded as failure in the course.

SPECIAL EXAMINATIONS FOR CREDIT

Any student who wishes to take a Special Examination for credit in a course must comply with the following regulations and policies:

1. Special Examinations may be taken only by regularly enrolled students.
2. Permission is not granted to take a Special Examination in (1) a graduate course, (2) a course which is a prerequisite, stated or implied, for an advanced course in the same discipline for which credit has been earned, or (3) a course which a student has pursued beyond the first 6 weeks of a regular semester or the first 3 weeks of a summer session.

3. Special Examinations may be taken only during the first 6 weeks of a regular semester or the first 3 weeks of a summer session.

4. A fee of \$5 is charged for each Special Examination.

5. Credit granted on the basis of a Special Examination is so entered on the student's record and marked with the grade earned on the Examination, A, B, C, D, or F.

6. Credits earned by Special Examination are not considered in deter-

mining academic probation and/or suspension at the end of a semester or summer session.

7. Special Examinations may not be repeated.

8. Written permission to take a Special Examination must be secured by the student from his adviser, department head, dean, the head of the department in which the course is offered, and the Registrar. Instructors may not give a Special Examination for credit until notified by the Registrar that permission has been granted.

When the Special Examination has been completed and its results determined, the instructor administering the test will send an original grade slip to the Registrar with a notation on the slip that the course was completed by Special Examination. The duplicate grade slip, similarly marked, is sent to the academic dean.

CREDIT FOR CORRESPONDENCE AND EXTENSION WORK

If a student desires to register at another school for correspondence or extension courses to be used in meeting degree requirements at Northwestern State University, he must obtain in advance the permission of the dean of the college in which he is registered. Candidates for graduation must complete such work and have their record placed on file in the Registrar's office at least 30 days before the date of graduation. **No grade of F earned at Northwestern State University may be removed by correspondence at another institution.**

ADDING, DROPPING, AND SUBSTITUTING COURSES

Under certain conditions, students may secure permission to add, drop, or substitute courses. Permission to drop full semester courses will not be granted without penalty after the first 6 weeks of a regular semester or after 3 weeks of a summer session. Courses may be dropped thereafter only with a grade of F, unless the dean of the college in which the student is registered authorizes the Registrar in writing to substitute a grade of W. **A student must not stop attending a class until he has officially dropped it.**

Authorization to substitute a course for another which is specified in a curriculum requires the initial approval of the student's adviser with the subsequent approval of the head of the department which offers the curriculum being pursued by the student and the dean of the college in which the student is registered.

CREDIT FOR EXTRACURRICULAR ACTIVITIES

No more than 6 semester hours of credit earned in any one of the following extracurricular activities may be applied toward fulfillment of degree requirements: band, chorus, debate, drama, ensemble, orchestra, radio, except in the case of music curricula requiring 8 semester hours of band, chorus, ensemble, or orchestra. A maximum of 3 semester hours credit in any one of these activities may be applied to degree requirements.

GRADES AND QUALITY POINTS

Students are graded in their studies on the quality of their work. Five grades are in use, as follows: **A** (excellent), **B** (good), **C** (average), **D** (poor), and **F** (failure). The grades of each student are entered in the records at the end of each semester. If a student resigns at mid-semester or thereafter, his mid-semester grades are used to determine his status on his return.

I means that a student's work in a certain course is incomplete because of circumstances beyond his control, but is satisfactory in other respects. The deficiency must be met during the next semester or summer session of attendance, the permanent grade being filed in the customary manner; otherwise, the mark **I** automatically becomes **F**. A student whose academic status is dependent upon removal of an incomplete grade must remove the **I** within 5

weeks of the next period of attendance.

A student who repeats a course which he has successfully completed must accept the last grade received as final.

W represents an official withdrawal from the course.

Grade Reports. At the middle and at the end of each semester the record of each undergraduate student is sent by mail to his parents or guardian.

Quality Points. In addition to earning credit hours for courses satisfactorily completed, students earn quality points according to the semester grades they make in the courses pursued. The following table is used in computing quality points:

Grade **A** yields 4 points for each semester hour of credit represented.

Grade **B** yields 3 points for each semester hour of credit represented.

Grade **C** yields 2 points for each semester hour of credit represented.

Grade **D** yields 1 point for each semester hour of credit represented.

Grade **F** yields no points.

CLASSIFICATION OF STUDENTS

The following table shows the minimum requirements in semester hours and in quality points for classifying students in the several ranks:

	Class	Semester Hours	Quality Points
Freshman	1-1	0	0
	1-2	15	30
Sophomore	2-1	30	60
	2-2	45	90
Junior	3-1	60	120
	3-2	76	152
Senior	4-1	92	184
	4-2	108	216

HONOR ROLL

Any regular student who makes a **B** average or better in any semester or summer session shall be placed on the Honor Roll for that term.

To be placed on the Honor Roll at Commencement, a student must have at least a **B** average on all work pursued. A student who has earned any part of his credits elsewhere must have a **B** average on that portion of his credits earned at Northwestern State University as well as an over-all **B** average.

RESIGNATION FROM THE UNIVERSITY

Any student who wishes to resign from the University must submit a written statement of approval of his resignation from his parent or guardian to the head of the Department of Counseling.

No grades are recorded for a student who resigns prior to the middle of a semester or summer session. If a student resigns at mid-semester or thereafter, his mid-semester grades determine his status upon his return.

A grade of **F** for each course will be given to any student who withdraws from the University without official permission. Students who disregard the rules governing resignations are recorded as dismissed from the University and may forfeit all claims to refunds by the Controller.

DISMISSAL FROM COURSES

With the approval of the dean of the college and head of the department offering the curriculum in which the student concerned is registered, an instructor may at any time dismiss a student from a course. Written notice of dismissal, signed by the instructor, department head and dean concerned, should be sent immediately to the Registrar. Such dismissal, following proper consultation and approval, is considered a failure and is indicated on the student's record by the grade of **F**.

SCHOLASTIC PROBATION, SUSPENSION, AND
READMISSION REGULATIONS

Adopted by State Board in December, 1964

1. All full-time or part-time students, **other than first-semester freshmen, who fail to earn at least a D average (1.0) on all hours pursued during a semester will be suspended for 1 full semester. Those whose averages range from 1.0 to 1.5 will be placed on probation.**
2. All first-semester freshmen, whether full-time or part-time, who fail to earn a grade point average of at least 1.5 during their first semester of study will be placed on probation.
3. a. A student on probation will be given 1 semester in which to remove himself from probation; if he does not he will be suspended for 1 semester.
b. If a person is placed on probation as a full-time student, he may remove himself from probation **only** as a full-time student.
c. If a person is a part-time student at the time he is placed on probation, he must pursue at least as many hours to remove himself from probation as he was pursuing at the time he was placed on probation.
4. After the lapse of 1 semester, a student may re-enter on probation, but he must make a C average on all hours pursued during the semester, **or he will be suspended again.**
5. A student who resigns after 9 weeks of a semester will receive at the time of withdrawal grades of WA, WB, WC, WD, or WF; and these grades will be used in computing his academic status.
6. A student suspended at the end of the spring semester may attend the summer session, but he must remain out during the fall semester. Grades earned during a summer session do not change the probational or dismissal status of a student.
7. A student suspended for scholastic deficiencies may re-enroll after the expiration of 1 semester until his fourth suspension, which dismisses him permanently.
8. A student under suspension for scholastic reasons may not obtain credit toward a degree on courses pursued at another institution during the period when he is ineligible to register in an institution under the jurisdiction of the State Board of Education.

APPEAL

Any student who has been suspended for scholastic reasons and who feels that his work was adversely affected by circumstances beyond his control may request that the period of his suspension be waived. Forms to be used in making this appeal are available in the office of the Registrar.

DEFINITION OF A FULL-TIME STUDENT

A full-time student is one who is taking at least 12 semester hours of scheduled work during a semester or at least 6 semester hours in a summer session.

DEFINITION OF A PART-TIME STUDENT

Any student taking less than 12 semester hours in a regular semester or less than 6 semester hours in a summer session will be a part-time student.

DEFINITION OF HOURS PURSUED

Hours pursued are defined as all courses completed and those courses not completed in which the grade of WA, WB, WC, WD, or WF is received. If a student repeats a course, the last grade and credits made shall be used in computing the point ratio.

ADMISSION BY TRANSFER

Transfer students must be eligible to re-enter the institution from which they are transferring.

INFORMATION SHOWN ON TRANSCRIPTS
FOR STUDENTS TRANSFERRING

Any transcript issued for a student on scholastic probation or suspension by an institution under the jurisdiction of the State Board of Education shall show the effective date of such action and length of suspension.

CLASS ATTENDANCE REGULATIONS

1. The following minimum class attendance regulations for the colleges and universities under the jurisdiction of the State Board of Education were adopted July 13, 1965, and amended April 3, 1970, to apply only to freshmen and sophomore students.

a. Class attendance is regarded as an obligation as well as a privilege, and all students shall attend regularly and punctually all classes in which they are enrolled. Failure to do so will jeopardize a student's scholastic standing and may lead to the immediate suspension from the University.

b. Each instructor shall check the roll at each class meeting, shall keep a permanent attendance record for each class, and shall report student absences to the appropriate college or University officials.

c. A student shall submit excuses for all class absences to the appropriate official designated by the President within 3 class days after the student returns to classes. The appropriate official may excuse a student for being absent.

d. When a student receives a total of 4 unexcused absences in a given class, he will be dropped from the rolls with a grade of "F." When a student accumulates excessive absences (excused and/or unexcused) in any class, the instructor may recommend to the student's academic dean that he be withdrawn from the rolls of that class and given an appropriate grade.

e. Tardiness is treated as an absence unless an excuse is obtained from the instructor at the end of the period.

f. Students who are dropped for excessive absences will not be eligible to re-enter the college or University until expiration of 1 full semester.

g. A student whose class load falls below the minimum number of hours required for a regular student, because of his own dropping of a course or because of his exclusion from a class or classes because of excessive absences, will be dropped from the rolls of the University and will be subject to the regulations concerning withdrawal from the University. When a student is dropped from the institution because of class absences, he has the right to appeal to his academic dean.

2. An absence is incurred when a student fails to attend class for any reason. Absences shall be counted in each course, beginning with the date of enrollment in the course as shown in the "Class Record" book.

3. **Reporting Class Absences.** Each instructor shall check the rolls at each class meeting and keep a permanent record of each student's attendance in the "Class Record" book.

a. Instructors of courses in which freshmen students are enrolled shall enter the names of all freshman students who are absent on attendance report forms and forward them daily by campus mail to the Attendance

Counselor. From these report forms, absences will be posted to the individual attendance records kept by the Attendance Counselor.

b. Instructors of courses in which sophomores are enrolled shall report to the Attendance Counselor the name of each sophomore student who is absent if the instructor decides that the absence is not excusable. If a student incurs 3 consecutive absences, the instructor shall notify the Attendance Counselor of this fact in order that the cause may be determined.

4. Class Absence Approval.

a. Freshman students must obtain excuses for class absences from the Attendance Counselor. The Attendance Counselor may approve absence due to confinement in the University Infirmary. However, treatment by Infirmary personnel for minor complaints may not justify class absence approval. At his own discretion, the Attendance Counselor may approve excuses signed by parents or physicians. Any student over 21 years of age may submit his own. Excuses must be submitted to the Attendance Counselor no later than the third day after the student returns to class.

b. Sophomore students must obtain excuses for class absences from their instructors.

c. Absence due to trips approved by proper authority, or to the performance of special duties at the University shall be excused. On the day following the event, the member of the faculty responsible for the trip or activity will submit to the Attendance Counselor an alphabetical list of those students who participated. Each freshman and sophomore student who participated shall secure a class absence approval form from the Attendance Counselor and present it to the instructor no later than the second class session following the absence. The instructor, upon receiving the class absence approval form, shall record the absence as excused in his "Class Record" book.

d. Students absent from class for any reason will be held strictly accountable for the work missed. Each instructor is expected to give the students with excused absences every opportunity within reason to make up the work missed. However, the responsibility for initiating any make-up work rests wholly with the student, who should, whenever possible, make the necessary arrangements before the absence is incurred.

5. Penalties for Excessive Absences.

a. Absences incurred by a student who is in the process of dropping a course, or intending to drop a course, will be recorded as unexcused.

b. Tardiness will be treated as an absence unless excused by the instructor at the end of the period during which the tardiness occurred. The initiative in obtaining this excuse rests with the student.

c. In the event a student incurs a total of 3 unexcused absences in a course, the academic dean, parents, adviser, and the student are advised of this fact by the Attendance Counselor. Since it is the student's responsibility to be aware of his class attendance record at all times, failure to receive the notice of 3 unexcused absences does not alter his status. Should the student incur 4 unexcused absences in any course, he is to be dropped from that course with a grade of "F." This procedure is initiated by the Attendance Counselor.

d. If a student incurs a total of 10 unexcused absences in all classes, the student, his parents, advisers, and academic dean are notified by the Attendance Counselor. Should another unexcused absence be incurred the Attendance Counselor will notify the academic dean, who will suspend the student with a grade of "F" in each of the courses being pursued.

e. Students who are suspended for excessive unexcused absences will not be eligible to re-enter the University until the expiration of 1 full semester.

f. If a student accumulates a number of absences in a course, whether excused or unexcused, that exceeds 3 times the number of scheduled class sessions per week, the academic dean will take action to determine whether the student is to be dismissed from the course or allowed to continue in the course. If the student is dismissed from the course, the dean shall assign him a grade of "W" or "F", depending upon his standing in the class and a consideration of factors pertaining to the absences.

6. **Appeal.** Any student penalized for being absent an excessive number of times may appeal to the Admissions, Credits, and Graduation Sub-Council. This appeal must be presented in writing to the Attendance Counselor within 3 days of the date of the letter of suspension and must outline the basis of the request. The student may also appear before the Sub-Council.

STUDENT LIFE

HOUSING AND LIVING ACCOMMODATIONS

ALL APPLICATIONS FOR DORMITORY ROOMS and other on-campus housing, and all inquiries, should be addressed to the Director of Housing, Northwestern State University. Applications may be made at any time. Acceptance of a room deposit and the assignment of a room must not be interpreted as acceptance for admission to the University.

A ROOM DEPOSIT OF \$25 must accompany any application for a dormitory room. Checks or money orders should be made payable to Northwestern State University. **Cash should not be sent by mail.** The room deposit will be held throughout the student's period of residence and will be returned at its end if the room has not been damaged. The deposit will be returned if an application is cancelled at least 30 days prior to the opening of the semester.

THE GENERAL POLICIES ON HOUSING on the Northwestern State University campus are based on the philosophy that dormitory living is a part of the total educational function of the institution in providing the best education for the individual. The State Board of Education recognized and emphasized this in November, 1969, in adopting a policy of parietal rules for all colleges and universities under its jurisdiction.

THE POLICIES which govern the management and operation of campus housing facilities are:

1. All unmarried undergraduate students must live in campus dormitories. Exceptions to this policy are made for those students who present convincing evidence that substantial hardship for financial, medical, or other sound reason will occur if the policy is enforced.

Application for exemption from the on-campus residence requirement must be made in writing to the Dean of Students no later than 2 weeks prior to the beginning of the semester. The student will be notified in writing of the decision rendered by the Dean of Students. Request forms are available in the office of the Director of Housing. Any student who has applied for and been denied an exemption from the on-campus residence requirement shall have the right to appeal such decision in accordance with the provisions and administrative procedures authorized and established pursuant to the authority of Act 59 of 1969. (L.R.S. 17:3101.)

2. Campus housing may be made available to residents of Natchitoches and vicinity only after other Louisiana residents have been accommodated.

3. Louisiana residents are given preference over non-residents in the assignment of campus housing.

4. Rental rates on all campus housing facilities are subject to change without notice.

5. Campus housing accommodations may be denied, cancelled, or changed at the discretion of the University. The University reserves the right to enter and inspect any campus residence room or space at any time.

Roommate requests will be honored. Such requests can be accommodated more easily if the students concerned indicate their preference on their room applications; submit applications and pay room deposits at the same time; and check into the assigned dormitory together.

ON-CAMPUS HOUSING FOR MEN. Dormitories for men include Bossier, East Caspari, West Caspari, Natchitoches, North, Prudhomme, Rapides, South, and West halls. East Caspari is used for housing only male graduate students. Rooms in Bossier, Caspari, Natchitoches, Prudhomme, and Rapides halls (air conditioned) rent for \$160 per student per semester (\$80 per summer session). All other rooms rent for \$140 per student per semester (\$70 per summer session).

ON-CAMPUS HOUSING FOR WOMEN. Dormitories for women include Audubon, Caddo, Carondelet, Louisiana, Morris, Sabine, and Varnado halls. Accommodations consist of double and triple rooms, some of which are arranged in suites.

Rooms in Caddo, Louisiana, Sabine, and Varnado halls (air conditioned) rent for \$160 per student per semester (\$80 per summer session). All other rooms rent for \$140 per student per semester (\$70 per summer session).

ON-CAMPUS HOUSING FOR MARRIED STUDENTS. The University maintains 64 on-campus apartments for married student couples. A couple is permitted to occupy an apartment only if the husband is a full-time student.

A deposit of \$25 is required before an assignment to an apartment can be made. This deposit is returned if the reservation is cancelled at least 30 days prior to the expected date of occupancy, or at the time the apartment is vacated, after adequate notice, provided no damage has been done to the apartment.

Apartments in frame buildings rent for \$30 (1-bedroom) and \$37.50 (2-bedroom) per month. Apartments in brick buildings rent for \$50 (medium) and \$60 (large) per month. All rent is payable in advance on the first of the month. Failure to clear an account within 2 weeks may result in dismissal from the University.

Furniture provided in most apartments includes only a circulating heater and kitchen range. Occupants must provide all other items. Each apartment is separately metered for gas and electricity; tenants are responsible for making their own arrangements for these utilities with Central Louisiana Electric Company and the City of Natchitoches. Water is furnished by the University without charge.

EXPENSES

ENROLLMENT FEES. At the time of registration in any regular semester or summer session, each full-time student must pay the following fees:

1. Registration fee (\$100 each semester; \$50 each summer session).
2. Student Government Association fee (\$15.50 fall semester; \$8.50 spring semester; \$5.75 summer session).
3. Student Union fee (\$7 each semester; \$3.50 each summer session).
4. Building Use fee (\$10 each semester; \$5 each summer session).

Part-time graduate and undergraduate students enrolled in regular classes or Natchitoches campus evening and Saturday classes must pay a minimum registration fee of \$30 and an additional \$10 for each semester hour of credit above 3 hours to a maximum of \$100 in each regular semester and summer session. They must also pay Student Union and Building Use fees. Fees for courses offered through the Division of Continuing Education vary according to site.

Holders of honors scholarships who maintain satisfactory scholastic records are exempted from payment of part of the registration fee (\$20 in a regular semester; \$10 in a summer session).

TUITION. Tuition is free in all departments except Music. Non-music majors are charged \$30 per semester for 1 1-hour private lesson per week and \$15 for 1 half-hour private lesson per week. They must also pay a fee of \$5 per semester for renting a practice room 1 hour a day and \$2 for each additional hour. There are no special charges for music majors.

OUT-OF-STATE TUITION. All undergraduate students whose parents or court-appointed guardians do not maintain their residence in Louisiana must pay an out-of-state tuition fee of \$315 per semester and \$157.50 per summer session. All graduate students whose parents or court-appointed legal guardians do not maintain their residence in Louisiana are required to pay an out-of-state tuition fee of \$100 per semester and \$50 per summer session.

By resolution of the Louisiana State Board of Education, students from

Arkansas, Mississippi and Texas will pay an out-of-state tuition equal to that charged to Louisiana students at their respective state universities of each state.

Persons on student visas from foreign countries are required to pay the out-of-state tuition fees.

ROOM RATES. Detailed information on student housing, including rental rates, is given in the preceding section titled "Housing and Living Accommodations."

FOOD SERVICE. All dormitory residents, except seniors and graduate students, are required to purchase 7-day meal tickets (\$220 per semester; \$110 per summer session). Meal tickets may be purchased by seniors and graduate students living in dormitories if they wish to do so. Meal tickets purchased by seniors and graduate students must be continued for the entire semester or summer session.

INFIRMARY. All dormitory residents must pay Infirmary fees (\$15 per semester; \$7.50 per summer session). Full-time students residing elsewhere may secure Infirmary services by paying the fee. The fee covers use of the University Infirmary and routine medication.

STUDENT ACCIDENT AND SICKNESS INSURANCE. All full-time undergraduate students must purchase student and accident insurance (\$9.25 fall semester; \$9.25 spring semester; \$4.25 summer session).

TEXTBOOKS. All textbooks used in University courses are on sale at the NSU Bookstore located in the Student Union. New books are sold at the publisher's list price. Used books are sold at 75% of the publisher's list price.

Under certain conditions, the Bookstore may re-purchase texts. Only books to be used again as texts and considered usable by the Bookstore Manager will be repurchased. Books will be re-purchased at 50% of the publisher's list price.

The books of students who resign or drop a course during the first 2 weeks of a regular semester or the first week of a summer session will be re-purchased at the price for which they will be re-sold, provided that (1) Bookstore pricing or coding has not been altered or defaced, (2) the book is used in a course in which the student is enrolled as verified by his dean, and (3) the student presents the cash register receipt received at the time of purchase. This policy applies to paperbacked books unmarked in any fashion.

The books of students who resign or drop a course after the first 2-weeks of a regular semester or the first week of a summer session will be re-purchased at 50% of the publisher's list price, provided that (1) Bookstore pricing or coding has not been altered or defaced, and (2) the book is used in a course in which the student is enrolled as verified by his dean.

If a student is required to drop a course for the convenience of the University, his book will be re-purchased at the price he paid for it.

The following books will not be re-purchased by the Bookstore: (1) those not to be used again as texts, (2) those not considered usable by the Bookstore Manager, (3) those used in 500 or higher level courses, (4) those used in courses offered only once every 2 years or less frequently, and (5) paper-backed books. In a few instances books used in certain courses will not be re-purchased at the specific request of the departments offering the courses.

MILITARY SCIENCE DEPOSIT. An annual deposit of \$10 is made by each student enrolled in ROTC. Five dollars of this deposit is placed in the ROTC Activity Fund. The balance is returnable at the end of the year or at the time of withdrawal, provided all issue equipment and clothing is returned in satisfactory condition. If damage to these items exceeds \$5, the additional amount will be collected from the student prior to his clearance from the University.

GRADUATION FEES. Diploma fee \$5. Candidates for bachelor's degrees pay a cap and gown fee of \$4 and an Alumni Association fee of \$1. Candidates

for advanced degrees must order caps, gowns and hoods through the Student Union Information Office, Room 211. Orders must be placed by mid-term of the semester or summer session in which the degree is to be awarded.

PARKING FEE. Any student who operates an automobile on the campus between the hours of 7:00 a.m. and 4:00 p.m. must pay a parking fee of \$2.50 per car per semester (\$1.25 per car in summer session). All such vehicles must be registered and fee paid at the Campus Security office within 24 hours after arrival.

ESTIMATED EXPENSES for a student living on-campus are as follows:

Living Expenses:	Fall Semester	Spring Semester	Summer Session
Room	\$140.00-\$160.00	\$140.00-\$160.00	\$ 70.00-\$ 80.00
Board	220.00	220.00	110.00
Infirmary	15.00	15.00	7.50
	\$375.00-\$395.00	\$375.00-\$395.00	\$187.50-\$197.50
School Expenses:			
Registration	\$100.00	\$100.00	\$ 50.00
SGA Fee	15.50	8.50	5.75
Insurance	9.25	9.25	4.25
Book Costs (est)	80.00	80.00	40.00
Student Union Fee	7.00	7.00	3.50
Building Use Fee	10.00	10.00	5.00
Parking Fee	2.50	2.50	1.25
	\$224.25	\$217.25	\$109.75
Total Estimated Expenses:			
	\$599.25-\$619.25	\$592.25-\$612.25	\$297.25-\$307.25

Note: **all fees and charges are subject to change without notice.**

PAYMENT OF FEES AND CHARGES. Full payment must be made at the time of registration for all charges listed above under School Expenses and the Infirmary fee.

Students living on campus may pay in advance for rooms and meal tickets, or in 4 installments, the first payable at registration. A student is allowed a period of 1 week from the due date of each payment in which to clear his account. Failure to do so may result in dismissal from the University. Students are expected to assume the responsibility for prompt payment of all charges; the University will not send statements of payments due.

Students living off-campus must pay in full at registration.

Graduate students and seniors who do not purchase meal tickets must pay in full at registration.

REFUNDS. General registration fees and out-of-state tuition fees are not refundable. Student Government fees and fees for evening and Saturday classes may be refunded during the registration period.

If a student resigns from the University, refunds will be made on room, meal ticket, and infirmary charges on a pro-rata basis from the effective date of withdrawal.

FINES AND PENALTIES

LATE-REGISTRATION FEE. Any student who registers after the close of the official registration period is charged a late-registration fee of \$10. In unusual circumstances, the dean of the college in which the student is registered may exempt him from payment of the fee.

LIBRARY FINES. Nominal fines are imposed on students who fail to

return Library books when they become due or who damage books or other materials. Fines are due and payable on notice.

CHECKS RETURNED UNPAID. The penalty for each returned unpaid check is \$2 for each period of 5 calendar days, with a maximum of \$6. The penalty payment period begins on the first day after notice has been mailed to the school address given by the student. If redemption, plus penalty, is not made by the close of office hours within 15 calendar days after notice is mailed, the student may be dismissed from the University.

STUDENT LOANS

The **ALUMNI LOAN FUND** provides financial assistance to worthy students at Northwestern State University. Loans are limited to seniors who have at least a C average and to regular graduate students. Borrowers pledge repayment of loans from their first year's earnings. Loan applications must be approved by the Loan Committee of the NSU Alumni Association. The Loan Fund is administered by the Secretary of the Alumni Association.

The **KEMPER BROWN MEMORIAL LOAN FUND** is maintained by the family of the late Mrs. Kemper Brown, prominent music teacher of Pelican, Louisiana. Each year a music faculty committee selects a student to receive the interest-free \$100 loan. Selection is based on character, musical ability, and need. The loan is to be repaid during the recipient's first year of employment. Address inquiries to the Head of the Music Department, Northwestern State University.

The **LILIAN G. MCCOOK MEMORIAL LOAN FUND** is maintained by the family and friends of the late Mrs. Lilian G. McCook, formerly a member of the Northwestern State University music faculty. Each year the recipient of the \$100 interest-free loan is selected by a music faculty committee. Selection is based on character, musical ability, and need. The loan is to be repaid during the borrower's first year of employment. Address inquiries and application to the Head of the Music Department, Northwestern State University.

NATIONAL DEFENSE STUDENT LOANS are available to students in any field of study except Nursing. As prescribed by the National Defense Education Act, special consideration is given to (a) students with superior academic backgrounds who express a desire to teach in elementary or secondary schools, and (b) students whose scholastic records indicate superior capacity or preparation in science, mathematics, engineering, or a modern foreign language. No repayment is to be made and no interest accrues until after the borrower is no longer a full-time student. Address inquiries and applications to the NSU Student Financial Aid Office, Room 208, Roy Hall.

The **NURSING STUDENT LOAN PROGRAM** seeks to increase opportunities for the education of nurses by assisting in the establishment of loan funds in professional schools of nursing from which low-interest loans may be made to students of nursing requiring financial aid. Address inquiries and applications to the NSU Student Financial Aid Office, Room 208, Roy Hall.

STATE-GUARANTEED LOANS are available to Louisiana residents requiring assistance who enroll as full-time students at Northwestern State University. High School applicants must have an overall C average in mathematics, English, science, and social studies, and must maintain a C average in their University work. Loans approved by the University and the Louisiana Higher Education Assistance Commission are completed by the student with the participating bank of his choice. Interest is paid by the Commission until the borrower ceases to be a full-time student. Address inquiries and applications to the NSU Student Financial Aid Office, Room 208, Roy Hall.

The **STUDENT ASSOCIATION LOAN FUND** is administered by a joint faculty-student committee and provides assistance to worthy students who

desire to continue their education at Northwestern State University. Information concerning the various types of loans may be secured from the Dean of Men.

Short-range Loans are available to help students meet emergencies and must be repaid within 45 days or by the end of the semester in which the loan is made, whichever date is earlier. A small service charge is required.

Long-term Loans, available to full-time students after the completion of at least 1 semester, must be repaid not later than 3 years after the borrower ceases to be a full-time student at Northwestern State University. Borrowers execute a note with acceptable endorsement. Notes bear 2% interest while the borrower remains in the University and 4% thereafter.

The Senior Class Loan Fund provides short-term loans, with no interest charge, to regularly-enrolled students requiring financial assistance. Loans are to be repaid within 90 days or by the end of the semester in which the loan is made, whichever date is earlier.

Address inquiries and applications to the Dean of Students, Northwestern State University.

SCHOLARSHIPS

Prospective high school applicants for scholarships should discuss all forms of financial aid available with their high school principals or guidance personnel before making application. Information concerning any scholarship listed below may be secured from the NSU Student Financial Aid Office, Room 208, Roy Hall, Northwestern State University. Unless otherwise indicated, scholarship applications should be addressed to this office.

The MRS. H. D. DEAR PIANO SCHOLARSHIPS are presented by Mrs. Dear, a prominent music teacher of Alexandria, Louisiana, to the first and second place winners in an annual piano competition for freshman music majors sponsored by the Northwestern State University Department of Music.

The T. H. HARRIS SCHOLARSHIPS are provided by action of the State Legislature. Young people of acute minds, pleasing personalities, good character, ambitious purpose, and positive qualities may apply. College students must have at least a B average on all college work to be considered. T. H. Harris scholars must maintain at least a B average in college or forfeit their scholarships. Address inquiries and applications to the T. H. Harris Scholarship Foundation, State Department of Education, Baton Rouge, Louisiana.

HIGH SCHOOL HONOR SCHOLARSHIPS are awarded to students nominated by the principals of the high schools from which they graduated. A school may nominate 1 student for each 50 graduates or major fraction thereof. A nominee must rank in the upper 25% of his graduating class. The recipient of this scholarship must maintain a 2.5 grade point average during his freshman year at Northwestern State University and a 3.0 grade point average thereafter. This scholarship has a value of \$20 for each regular semester and \$10 for each summer session. The recipient may use this scholarship for 4 academic years or until completion of the undergraduate degree.

The LOUISIANA STATE UNIVERSITY HONORARY GRADUATE SCHOLARSHIP is granted by the University to a student in each graduating class at Northwestern State University who has at least a B average during his junior and senior years and who shows promise of scholarship and ability. Recipients are selected by the Northwestern State University faculty. Stipends are \$270 per academic year, with exemption from tuition and University fees. No service is required of the holder. Scholarships are to be used beginning with the fall semester of the year in which awarded. Seniors should apply prior to March 1 to the Chairman of the Northwestern State University Committee on Academic and Professional Standards, through the office of the Dean of Students.

The ANNA HESTER MORTON MEMORIAL SCHOLARSHIP was established by Mr. Charles H. Morton, of Jonesboro, Louisiana, in memory of his mother who graduated from the University in 1888. This scholarship, which provides an annual stipend of \$300, is officially awarded by the University to a worthy student woman who would otherwise be unable to complete her education. The recipient must exert earnest effort to succeed in her college work and must maintain at least a C average at all times. Though it is preferred that the same student retain the scholarship for 4 years, a change in recipients may be made if required by circumstances.

Information concerning MUSIC SCHOLARSHIPS open to members of the Northwestern State University band and orchestra may be secured from the Head of the Music Department.

The NORTHWESTERN STATE UNIVERSITY ACADEMIC SCHOLARSHIPS are awarded to 20 graduates of Louisiana high schools. The scholarships are valued at \$1000 per year until the holder has earned a bachelor's degree or for 4 years, whichever is the shorter period. Applicants are requested to take the American College Testing Program (ACT) battery of tests no later than the December administration of the tests in their senior year of high school, since academic ability is the primary factor in the award of the scholarship. Address inquiries and applications to the Chairman of the Academic Scholarship Committee, Northwestern State University.

The NORTHWESTERN STATE UNIVERSITY ALUMNI SCHOLARSHIP, provided by the Alumni Association, offers a stipend of \$400 to a high school graduate who has never attended college and has at least a B average on all high school work. Applicants are required to take a battery of tests administered early in the spring semester at the University and at several high schools in the state. Applications, including required testing, must be made by March 30. Address inquiries and applications to the Secretary, Northwestern State University Alumni Association.

NURSING SCHOLARSHIPS are available in limited numbers which provide assistance to qualified high school graduates who show promise of success in nursing and who require financial assistance.

Trainee assistance under the program administered by the Public Health Service of the Department of Health, Education and Welfare is available to graduate nurses employed at the head nurse level or above who are completing their last year of academic work toward a degree. Tuition fees and stipends are included.

Address inquiries and applications to the Dean of the College of Nursing, Northwestern State University.

The ANNIE LAURIE PUJOS SCHOLARSHIP was established by Colonel Hugh D. Blanchard in memory of his wife, a former student at Northwestern State University and member of the faculty. The 4-year scholarship provides an annual stipend of about \$270.

The recipient must be a student woman of superior academic standing and high character; she must profess the intention of becoming a teacher and show unusual promise for such a career. First consideration is shown to women graduates of Thibodaux High School. If none applies, applicants from other high schools in Lafourche Parish will be considered. Other applications may be considered at the discretion of the committee in charge of the scholarship fund. Address inquiries and applications to the Secretary of the Northwestern State University Alumni Association.

The U.S. ARMY ROTC SCHOLARSHIP program offers financial assistance to outstanding young men in the 4-year Army ROTC program who are inter-

ested in careers in the Army. Each scholarship provides for payment of tuition and laboratory fees and textbooks, and a subsistence allowance of \$50 per month for the period the scholarship is in effect. During the 6-week summer training period at the end of the junior year, this pay is increased to one-half the pay of a second lieutenant (\$193). Scholarships are provided under the terms of Public Law 88-647, the ROTC Revitalization Act of 1964.

Scholarships may be awarded for 1, 2, 3, or 4 years. Four-year scholarships are open to selected students entering Army ROTC as freshmen. Two-year scholarships are available only to students who have completed the ROTC Basic Course (first 2 years) and are selected for enrollment in the ROTC Advanced Course (last 2 years). One-year scholarships are awarded to selected senior candidates for a degree and a commission. Address inquiries to the Department of Military Science, Northwestern State University.

The CORINNE SAUCIER SCHOLARSHIP is awarded to worthy, talented, industrious, and needy young men and women residing in Avoyelles Parish, Louisiana, and is to be used to develop their talents at Northwestern State University. Recipients are selected by the Avoyelles Parish School Board. Address inquiries and applications to the Superintendent of Avoyelles Parish Schools, Marksville, Louisiana.

The SHREVEPORT FIRST NATIONAL BANK SCHOLARSHIPS are offered annually by the Bank to several high school graduates of northwest Louisiana, principally those in the field of business. The usual annual stipend is \$300. Address inquiries and applications directly to the First National Bank, Shreveport, Louisiana.

The two SHREVEPORT JOURNAL SCHOLARSHIPS maintained by that newspaper provide annual stipends of \$300 to their recipients, who must be majors in journalism.

The TEAGLE FOUNDATION SCHOLARSHIP IN NURSING pays tuition, fees, and personal expenses for the children of Humble Oil Company employees who have been accepted by the Northwestern State University College of Nursing. Address inquiries and application to the Dean of the College of Nursing, Northwestern State University.

The TULANE UNIVERSITY HONORARY SCHOLARSHIP is awarded by that University to an honor student in the Northwestern State University senior class selected by the NSU faculty. The scholarship provides exemption from full tuition and requires no service of the holder. It is open to men and women. Seniors should apply prior to March 1 to the Chairman of the Committee on Academic and Professional Standards, through the office of the Dean of Students.

The TULANE UNIVERSITY REGIONAL LAW SCHOLARSHIP is granted annually by that University to a male honor student selected by the NSU faculty. The scholarship covers full tuition and is renewable annually upon maintenance of a satisfactory scholastic record in the Tulane Law School. Applications must be received by the pre-law adviser in the Department of Social Sciences, Northwestern State University, no later than November 1.

OTHER FINANCIAL AID

GRADUATE ASSISTANTSHIPS are available in some departments for highly qualified graduate students. Duties vary; stipends range up to \$1200 per semester. Address inquiries and applications to head of department concerned.

STUDENT EMPLOYMENT is available to capable students who demonstrate a need for financial assistance through the general fund of the University

and the college work-study provisions of the Higher Education Act of 1965. Applicants should demonstrate reasonably high standards of scholarship in high school work. Retention requires maintenance of standards prescribed by the Student Welfare Committee. Address inquiries and applications to the NSU Student Financial Aid Office, Room 208, Roy Hall.

UNDERGRADUATE RESEARCH PARTICIPATION STIPENDS are sometimes available to selected students seeking assistance for undergraduate research. Address inquiries and applications to head of science department concerned.

EDUCATIONAL OPPORTUNITY GRANTS are awarded to a limited number of students who demonstrate an exceptional financial need. Applicants must indicate academic or creative promise. Grants range from \$200 to \$800 per year and may not exceed one-half the cost of attending the University each year.

DISCIPLINE

In general, the discipline of the University is under the administration of the Dean of Students. Provision is made for a large measure of student control; most cases involving infractions are considered and acted upon by student committees or councils. Disciplinary problems may be referred to a student-faculty committee appointed by the President of the University. Students are expected to conduct themselves at all times in a manner acceptable to standards prescribed by society and the University.

STUDENT ACTIVITIES AND ORGANIZATIONS

EXTRA-CURRICULAR ACTIVITIES of various kinds are open to all eligible students. These activities are supported by the University because they contribute strongly to the education of the student and provide excellent avenues for self-development. Faculty members assist student organizations in program planning and revision.

Any student registered for 14 or more semester hours who has maintained a C average is eligible for participation in any extra-curricular activity other than intercollegiate athletics. Eligibility rules for participation in intercollegiate athletics are established by the Gulf States Conference.

No student may appear publicly in any extra-curricular activity, other than intercollegiate athletics, until he has been certified as eligible to do so by the Student Welfare Committee. Responsibility for securing this certification rests with the student concerned and the supervisor of the activity.

PUBLICATIONS of the student body include the university annual, the **Potpourri**, and the **Current Sauce**, a weekly student newspaper.

The STUDENT GOVERNMENT ASSOCIATION is a governing assembly elected by the undergraduate student body. The Association seeks to maintain and strengthen lines of communication and cooperation between students and faculty and provides opportunities for direct participation in democratic living.

DORMITORY COUNCILS are made up of dormitory residents elected by their fellow-residents. The principal function of each Council is to establish and implement policies governing the dormitory it represents.

The ASSOCIATED MEN STUDENTS. As the largest men's organization at Northwestern, the Associated Men Students has the objectives of promoting the general welfare of men students; serving as a means of communication between the men students and the administration, particularly regarding dormitory affairs; and stimulating good citizenship and responsibility among men students.

All undergraduate male students are members of the Associated Men Students. Residents of each men's dormitory elect representatives who serve

on a council within their dormitory, and who also represent their dormitory in the AMS Legislative Branch. The Legislative Branch deals with male student affairs on a University-wide basis. Off-campus men are represented on the Legislative Branch by male students who are chosen at large from the off-campus enrollment.

The President of AMS (who is also the Vice-President for Men on the Student Government Association), the Vice-President, the Secretary, and the Treasurer are all elected by campus-wide vote.

The ASSOCIATED WOMEN STUDENTS includes all student women. It seeks to promote intellectual and social growth and to develop student government among student women. The local organization is a member of the National Intercollegiate Association of Women Students.

Functioning AWS bodies are its Executive Committee of 8 officers elected yearly by student women, the Dormitory Councils elected by dormitory residents, the Town Associated Women Students, the Judiciary Board, the Sophomore Counselors, and the AWS Council made up of representatives of the Dormitory Councils.

The Judiciary Board is a law-enforcing body of the Associated Women Students. It functions as an aid and protection for student women on the campus. Membership includes the Vice-President of the AWS Executive Committee, who is chairman; the Corresponding Secretary of the Committee, who serves as secretary; and 3 other students annually appointed to the Board.

The STUDENT NURSE ASSOCIATION at Northwestern State University is a unit of the Louisiana and the National Student Nurse associations. On this campus it includes all students in nursing above the freshman level. Its purposes are to encourage interest in graduate nurse organizations and to provide for social activities and student government on the clinical campus.

HONORARY SERVICE ORGANIZATIONS: Blue Key, Circle K, Phi Delta Kappa, Phi Epsilon Kappa, Purple Jackets.

HONORARY PROFESSIONAL ORGANIZATIONS: Alpha Beta Alpha, Beta Beta Beta, Beta Gamma Psi, Iota Lambda Sigma, Kappa Delta Pi, Phi Alpha Theta, Pi Omega Pi, Political Science Society, Psi Chi, Society for the Advancement of Management.

HONORARY ACADEMIC ORGANIZATIONS: Alpha Lambda Delta, Phi Eta Sigma, Phi Kappa Phi.

RELIGIOUS ORGANIZATIONS: Baptist Student Union, Canterbury Club, Christian Service Association, Church of Christ Student Devotional, Holy Cross Catholic Church, Wesley Foundation, Westminster Presbyterian Fellowship.

SOCIAL SORORITIES AND FRATERNITIES: Alpha Sigma Alpha, Delta Zeta, Kappa Alpha Order, Kappa Sigma, Little Sisters of Pi Kappa Phi, Phi Mu, Pi Kappa Phi, Sigma Kappa, Sigma Sigma Sigma, Sigma Tau Gamma, Tau Kappa Epsilon, Theta Chi.

SPECIAL INTEREST GROUPS: Agriculture Club, Associated Men Students, Associated Women Students, Black Knights Drill Team, Campus Girl Scouts, Chemical Chapter, Contemporary Dancers, Cosmopolitan Club, Davis Players, Demon Band, Demon Divers, Geological Society, Home Economics Association, Industrial Education Club, Institute of Electrical Electronic Engineers Student Branch, Interfraternity Council, N. Club, National Collegiate Association of Secretaries, Neptune Club, Northwestern Symphony Orchestra, Ontological Club, Panhellenic Council, PEM Club, Phi Mu Alpha Sinfonia, Psychology Club, Recreation and Parks Association, Sigma Alpha Iota, S.L.T.A., Society of Physics, Sociology Club, Sigma Alpha Eta, Student Government Association, Student Personnel Association, Weightlifting Club, Young Republicans Club.

AWARDS

ACADEMIC HONORS BANQUET. Sponsored each year by Phi Kappa Phi, Kappa Delta Pi, Beta Beta Beta, Alpha Lambda Delta, Phi Eta Sigma, and Sigma Xi as a means of honoring outstanding scholastic achievement. Many of the awards listed below are presented at this time.

ALPHA BETA ALPHA AWARD. Presented annually by Alpha Chapter to the most outstanding graduate in library science. Recipient must have high scholastic standing and must have demonstrated ability as a librarian.

AMERICAN ASSOCIATION OF UNIVERSITY WOMEN'S AWARD. Presented annually by the Natchitoches Branch to the student woman having the highest academic average for the year.

AMERICAN LEGION AWARD. A medal presented annually by Gordon Peters Post Number 10, Natchitoches, to the outstanding student in the Basic Course, ROTC.

ASSOCIATED WOMEN STUDENT'S AWARD. Presented annually to a student woman selected on the basis of scholarship, character, and sincerity of purpose.

ASSOCIATION OF THE U. S. ARMY AWARD. A medal presented annually to the outstanding student in the first year of the Advanced Course, ROTC.

BETA BETA BETA AWARD. Presented annually by Delta Theta Chapter to a junior or senior chosen for outstanding achievements in biology and for advancement of the purposes of the Fraternity.

CRAFTSMAN'S FAIR AWARDS. Presented annually by the Department of Industrial Education and Technology to winners in the Craftsman's Fair (\$50 to first place; \$25 to second place). Winners must be high school seniors who expect to major in a curriculum offered by the Department.

DEAN OF WOMEN'S AWARDS. Presented annually to the freshman residence hall and to the upperclass residence hall having the highest scholastic averages for the year. An award is also given to the freshman woman with the highest scholastic average at the end of the fall semester.

DELTA KAPPA GAMMA AWARD. Presented annually by Epsilon Chapter to a senior woman with a superior scholastic record who shows exceptional promise of professional success in teaching.

DRAMATICS AWARD. An award of \$10 presented annually to the senior who has contributed most to dramatics during his senior year.

ENGLISH AWARD. Presented annually to an upperclassman in English. Selected from nominations made by the English faculty on the basis of scholarship, contributions to the University community, and willingness to accept responsibility.

ESTHER COOLEY AWARD. Presented annually to an outstanding home economics graduate selected on the basis of leadership, scholarship, and character.

EUTHENICS CLUB SCHOLARSHIP AWARD. Presented annually to the freshman home economics major earning the highest scholastic average.

HEALTH, PHYSICAL EDUCATION AND RECREATION AWARD. Annually presented by the Department to the outstanding senior man and woman majoring in health and physical education. Selections based on excellence in curricular and extra-curricular activities.

HOME ECONOMICS SCHOLARSHIP AWARD. Presented annually to the graduating home economics major with the highest scholastic average.

IOTA LAMBDA SIGMA AWARD. Annually presented by Pi Chapter to

the graduating senior majoring in industrial education who has the highest overall scholastic average.

KAPPA DELTA PI AWARD. Awarded annually for scholastic achievement to a student in the College of Education.

LESCHÉ CLUB AWARD. A prize of \$10 presented each year to a student presenting an original and outstanding piece of creative writing.

LIBRARY SCIENCE AWARD. Annually awarded to the senior in library science who has the highest scholastic average. The average must be at least 3.1.

LOUISIANA SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS AWARD. A medal presented annually to the outstanding student in accounting.

NATIONAL BUSINESS EDUCATION ASSOCIATION AWARD. Presented annually to the outstanding student in business education.

NATIONAL COLLEGIATE ASSOCIATION OF SECRETARIES AWARD. Presented annually to the outstanding student in secretarial administration.

GUY W. NESOM MEMORIAL AWARD. Presented annually by the Alpha Phi Chapter of Phi Epsilon Kappa and the V. L. Roy Chapter of the Student Louisiana Teachers Association. The award is given to an outstanding student in education in memory of the late Dr. Guy W. Nesom, former Dean of the College of Education.

NESOM-STROUD SABER. Presented each year by Mrs. Guy W. Nesom to the outstanding senior completing the Advanced Course, ROTC. The engraved saber memorializes the late Dr. Guy W. Nesom and the late Dr. Charles C. Stroud.

NU SIGMA CHI AWARDS. Presented each year to the freshmen women who have the highest overall scholastic averages.

MATTIE O'DANIEL AWARD. An award of \$15 presented each regular semester by Mrs. Martha O'Daniel Rinsland of Norman, Oklahoma, to a senior in the College of Education who exhibits professional ability, attainment, and promise.

PANHELLENIC FRESHMAN AWARD. Presented annually by the local Council to the sophomore woman with the highest scholastic average for the freshman year.

PANHELLENIC SCHOLARSHIP AWARD. Presented each year by the local Council to the sorority having the highest scholastic average for the year. The award is to be held permanently by the group winning it 3 successive times.

PHI ALPHA THETA AWARD. Presented annually to the outstanding junior or senior majoring in history. Eligibility requires a 3-2 classification, at least 15 semester hours in history, including at least 6 hours in advanced courses, an overall scholastic average of 3.1, and an average of 3.5 in history.

PHI ETA SIGMA AWARDS. Presented annually to the freshman men who have the highest overall scholastic averages.

PHI KAPPA PHI AWARDS. The Northwestern State University Chapter annually presents awards to the sophomores who have earned the highest scholastic averages.

PHI MU ALPHA AWARD. Presented each year by Gamma Rho Chapter to the outstanding male freshman majoring in music.

PI OMEGA PI AWARD. Annually presented by Alpha Nu Chapter to the outstanding senior majoring in business.

PURPLE JACKET CLUB AWARD. Presented annually to a sophomore woman on the basis of scholarship, leadership, and character. Eligibility requires a scholastic average of at least 2.6 for the entire freshman year.

The selection committee includes the President of the University, the Dean of Women, a faculty member selected by these 2, and officers of the Club.

SIGMA ALPHA IOTA DEAN'S HONOR AWARD. A check presented annually by the Foundation to an outstanding member of each of its chapters. Recipients selected on the basis of musicianship, scholarship, and contributions to the local chapter.

SIGMA ALPHA IOTA SCHOLASTIC AWARD. Presented annually by the Fraternity to the music major in each of its chapters who graduates with the highest scholastic average. Eligibility requires an overall average of at least 3.1.

SOCIAL SCIENCES AWARDS. Presented annually by the Department to the outstanding seniors majoring in social sciences in the College of Education and in any social science curriculum in the College of Liberal Arts. Eligibility requires an overall scholastic average of 3.1, and an average in the social sciences of at least 3.4.

SOCIOLOGY AND SOCIAL WORK AWARD. Presented annually by the Department to the senior majoring in social work or sociology with the highest scholastic average. Eligibility requires an overall average of at least 3.1, and at least 3.5 in the major field.

SONS OF THE AMERICAN REVOLUTION AWARD. A medal given each year to the outstanding freshman cadet in ROTC by the Louisiana Society of the Sons of the American Revolution.

STUDENT GOVERNMENT ASSOCIATION AWARDS. Presented annually by the Association to officers of the student body, senior varsity debaters, members of the Purple Jacket Club, cheer leaders, senior lettermen in major sports, and certain members of the Band and Demonettes.

UNION CARBIDE AND CHEMICAL COMPANY AWARD. Savings bonds (\$25 each) presented annually to the graduating senior and the freshman student majoring in curricula offered by the Department of Industrial Education and Technology who have maintained the highest scholastic achievement.

WALL STREET JOURNAL STUDENT ACHIEVEMENT AWARD. Presented annually by the business faculty to an outstanding graduating business administration major.

The **EUGENE P. WATSON MEMORIAL AWARD** is presented annually by Phi Kappa Phi in memory of the late Dr. Eugene P. Watson. Only first-semester seniors with scholastic averages of 3.4 or higher are eligible. Selection is based on achievement, character, health, personality, and seriousness of purpose. Address inquiries and applications to the President, Phi Kappa Phi, Northwestern State University.



COLLEGE OF BASIC STUDIES

Division of Continuing Education

Department of Counseling

Department of Testing

COLLEGE OF BASIC STUDIES

BENNIE G. BARRON, *Acting Dean*

All freshmen and all transfer students who have earned less than 30 semester hours of college credit must enroll in the College of Basic Studies.

The College of Basic Studies provides a comprehensive program of individual attention to problems encountered by new students making the transition from high school to the University. It also maintains general supervision of the new student, gives him more personal direction and guidance than is normally available, and affords the student who has not selected a major area of study an initial year of productive work in which to make a decision.

Credits earned by a student in the College of Basic Studies become a part of his total program and serve as the basis for further work leading to a degree.

DIVISION OF CONTINUING EDUCATION

HOYT REED, *Assistant Professor and Director*

The Division of Continuing Education provides administrative direction and support of instructional programs offered by the University at sites other than the Natchitoches campus. Faculty members teaching off-campus courses are drawn from the academic departments of the University.

Course offerings to meet the needs of persons who may not be regularly enrolled students may be requested by business, industrial, or civic organizations, government agencies, school systems, or groups of individuals who share a common interest.

Inquiries concerning Division of Continuing Education capabilities, requests for assistance in planning, and applications for offerings should be addressed to the Director, Division of Continuing Education, Northwestern State University.

DEPARTMENT OF COUNSELING

Counselor/Instructors: Batiste, Billingsley, P. Dennis

The Department of Counseling assists students in the College of Basic Studies in planning their educational and vocational careers, in developing class schedules, and in solving personal problems.

Counseling services may be obtained prior to entering the University; prospective students are encouraged to contact the Head of the Department of Counseling to arrange for discussion of educational and vocational objectives.

At the time of enrollment each new student will be assigned to a counselor/instructor of the Department of Counseling who will assist him in making educational choices and scheduling classes and who will offer suggestions for the improvement of study habits and the solution of personal problems.

DEPARTMENT OF TESTING

TANDY W. McELWEE, *Professor and Acting Department Head*

The Department of Testing supervises aptitude, achievement, and personality diagnostic testing primarily for students enrolled in the College of Basic Studies and secondarily for students and programs in other colleges. The Department serves as the testing agent for the Graduate Record Examination, Law School Admission Test, Miller Analogies Test, National Teacher's Examination, and other national testing programs. Inquiries concerning any of these programs should be directed to the Head of the Department of Testing.

UNIVERSITY PROGRAM FOR TALENTED HIGH SCHOOL SENIORS

The University Program for Talented High School Seniors is open to exceptionally well qualified high school students and is directed by the Department of Testing. If accepted, students are permitted to enroll in University courses during the summer session preceding their senior year in high school. If their homes are within commuting distance of the campus, students may take courses concurrently with their senior year in high school. Students who desire to participate must take the American College Testing Program tests at a national administration no later than February of their junior year in high school. Test results must be sent to Northwestern State University, Code 1600.

ADMISSION

Every applicant for admission to the University, including those who are to enter the College of Basic Studies, must submit an application to the Registrar. Instructions for making application for admission are given in detail elsewhere in this Catalogue (see Academic Regulations and Policies).

PLACEMENT TESTS

While the University does not base eligibility for admission upon test scores, all entering freshmen and new transfer students with fewer than 3 semester hours of credit in English composition and 3 semester hours of credit in mathematics must take the American College Testing (ACT) Program tests. Scores on those tests are utilized for the purpose of placing the student in courses at the level most suitable for him.

Detailed instructions for taking the ACT tests and submitting scores appear elsewhere in this Catalogue (see Academic Regulations and Policies).

ADVANCED STANDING EXAMINATIONS

Undergraduate students may earn advanced standing by examination in engineering drawing, English, foreign languages, mathematics, and office administration. Administrative guidance for the student who desires to take an advanced standing examination is provided by the Department of Testing. Prerequisites, grades, and other necessary information concerning these examinations are found elsewhere in this Catalogue (see Academic Regulations and Policies).

COUNSELING-ADVISING

Each student enrolled in the College of Basic Studies will be assigned a full time counselor/adviser on the College staff. The student is expected to establish a personal relationship with this staff member from whom he may obtain guidance and assistance with matters of an academic or personal nature.

CLASS ATTENDANCE

Class attendance is regarded as an obligation as well as a privilege and students shall attend regularly and punctually all classes in which they are enrolled. Failure to do so will jeopardize the student's scholastic standing and may lead to his suspension from the University.

Absences of students enrolled in the College of Basic Studies will be brought to the attention of the Attendance Counselor. Procedures for reporting absences, penalties for excessive absences, and other general attendance regulations prescribed by the State Board of Education for all state colleges are noted elsewhere in this Catalogue (see Class Attendance Regulations).

SCHOLASTIC REQUIREMENTS

1. All first-semester freshmen, whether full-time or part-time, who fail to earn a grade point average of at least 1.5 during their first semester of study will be placed on scholastic probation.

2. Regulations relative to probation, suspension, appeal, and readmission are specified elsewhere in this Catalogue (see Scholastic Probation, Suspension, and Readmission Regulations).

FRESHMAN ENGLISH

Beginning with the first semester of their enrollment at Northwestern State University, all freshmen students and all transfer students who have not completed English 101 and 102 must pursue the freshman English courses consecutively until successfully completed.

LECTURE-LABORATORY COURSES

Each lecture course and related laboratory course is a combination taught as a unit; the 2 courses must be taken concurrently. If 1 is dropped, the other must be dropped at the same time. If either course in such a lecture-laboratory combination is failed, it may be repeated without repeating the other.

SELECTION OF COURSES AND A CURRICULUM

The maximum amount of course work for which a student may register in any 1 regular semester is 21 semester hours, at least 1 of which must be an activity course. The minimum student load is 12 semester hours, unless the student is a candidate for graduation with fewer than 12 hours remaining to be taken or is pursuing a curriculum which requires less than 12 hours during that semester.

In special cases, the student may secure from his academic dean permission to schedule a course load greater than the maximum or less than the minimum.

Freshmen will ordinarily take courses numbered below 200 and may not register for higher numbered courses without special permission. Students of sophomore standing may, with adviser approval, take courses numbered in the 200 series. No student in the College of Basic Studies will be permitted to enroll in courses numbered 300 or above.

A student who must remain in the College of Basic Studies a second year to complete senior college admission requirements will schedule courses needed to make up any deficiencies in his freshman year's work, completing his schedule with courses required in the senior college of his choice.

STUDENTS WHO HAVE SELECTED A MAJOR and who want to insure their graduation in the minimum time should study carefully the freshman course requirements of their chosen curriculum. The assigned counselor/adviser will help the student plan a schedule consistent with the freshman year course sequence required in his curriculum.

STUDENTS WHO HAVE NOT SELECTED A MAJOR will enroll in the General Curriculum which is open to any student with less than 30 semester hours of college credit. By enrolling in the General Curriculum the student is permitted to:

1. Undergo special interest and aptitude testing while working with specially trained counselors toward the selection of a major area of study and making a vocational choice.

2. Delay the selection of a major until he has completed basic exploratory courses in subjects of interest to him.

3. Develop more definite and realistic aims before committing himself to a specialized study area.

The General Curriculum student receives extensive vocational and edu-

cational counseling supported by interviews and group discussions which familiarize him with various career fields. Every effort is made to identify and evaluate the student's aptitudes and interests so as to avoid unrealistic and unwise educational and vocational decisions.

A student may remain in the General Curriculum program until he has chosen a major area of study or has completed 30 semester hours of course work. In either case, the student then transfers to another curriculum of his choice. If the selection of a major is too long delayed, the student may find that he has taken courses not acceptable in his chosen curriculum.

GENERAL CURRICULUM (799)

All students enrolled in the General Curriculum must include the following courses in their schedules:

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
English	3	English	3
Mathematics	3	Mathematics	3
Orientation 101 or 102	1-3	P.E. and/or Military science ...	1-2
Orientation 103	1		
P.E. and/or Military science ...	1-2		

Additional courses to complete the first and second semester schedules are to be chosen from the following list. The student's adviser will assist him in identifying courses which appear to be related to his basic interests. Courses not on this list may be scheduled with the adviser's approval.

Agriculture 104, 105
 Art 101, 102, 103, 106, 107, 111, 112
 Biology 101-101L, 102-102L, 111, 112
 Business Economics 104
 Chemistry 103-103L, 104-104A or B; 111
 Computer Science 101, 102
 Economics 103
 Education 102
 Foreign language (French, German, Russian, Spanish) 101-101L, 102-102L,
 Forestry 111-111L
 Geography 101, 102
 Geology 103-103L, 104-104L; 111
 Health 102
 History 101, 102
 Home Economics 104, 112
 Industrial Education: Engineering Drawing 106-106L, 107-107L
 Graphic Arts 110-110L, 111-111L
 Woodworking 120-120L
 Journalism 202
 Library 102
 Microbiology 111, 112
 Military Science 101, 102
 Music 103, 131, 132, 134
 Office Administration 101, 102, 201
 Physics 101-101L, 102-102L; 111
 Psychology 101, 102, 111
 Recreation 101
 Social Studies 101, 102
 Sociology 100, 101
 Speech 101, 102 and speech activities in debate, drama and radio

ADMISSION TO A SENIOR COLLEGE

Students who do satisfactory work during their freshman year in the College of Basic Studies may apply for admission to a senior college of their choice (Business, Education, Liberal Arts, Nursing, or Science and Technology). Those remaining in the College of Basic Studies longer than 2 regular semesters may be admitted to a senior college when they have met its admission requirements.

Any student enrolled in the College of Basic Studies should indicate his probable choice of a senior college during his first semester of work. During the second semester the student should consult his adviser and complete registration in a senior college.

UNCONDITIONAL ADMISSION TO A SENIOR COLLEGE will be granted students who meet the following requirements:

1. Have earned at least 30 semester hours of credit, including at least 3 semester hours of English.
2. Have completed all additional admission requirements imposed by the senior college to which he is seeking admission.

Students admitted to a senior college may not be readmitted to the College of Basic Studies.

ORIENTATION

All freshmen and transfer students are required to schedule orientation during their first period of enrollment. Satisfactory completion of the course or courses is required for graduation in all curricula.

Students who earn credit in Orientation 102 before taking Orientation 101 are not required to take 101 but will have 2 semester hours added to the requirements for a degree. Students who take 102 after having earned credit in 101 will have 3 semester hours added to requirements for a degree. Orientation 103 is required of all students enrolled in General Curriculum, and adds 1 hour to degree requirements.

Courses of Instruction

101. ORIENTATION. 1 hour. A course designed to help new students adjust to college life—academically, socially, and vocationally. Emphasis on student regulations and requirements, basic study skills, and development of a sound philosophy of life.

102. READING IMPROVEMENT. 3 hours. Developmental reading for all students who need to improve their reading skills through elimination of faulty habits and refinement of techniques. Emphasis on rate of comprehension, vocabulary development, and study skills which will help the student become proficient in academic pursuits. Required of all students whose test scores indicate reading deficiency. Students who earn credit in this course before taking 101 are not required to take 101, but will have 2 semester hours added to degree requirements. Students who take this course after having earned credit in 101 will have 3 semester hours added to degree requirements.

103. EDUCATIONAL AND VOCATIONAL GUIDANCE. 1 hour. Assessment of individual abilities and interests; survey of opportunities and requirements of major occupations. Required of all students enrolled in General Curriculum. This course adds 1 semester hour to the requirements for a degree.

A black and white photograph of three young men in a library or office setting. The man on the left stands with his hand on a shelf, looking at the camera. The man on the right stands behind him, looking down at a book. The man in the foreground is crouching, gesturing with his hand. The background is filled with bookshelves.

COLLEGE OF BUSINESS

DEPARTMENTS

Accounting

Business Administration

Business Law and Office Administration

Economics

COLLEGE OF BUSINESS

DAVID TOWNSEND, *Dean*

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE

A. General Requirements

1. A minimum of 120 semester hours of academic work, exclusive of physical activity and extra-curricular activity credits.
2. The senior year in residence, usually defined as the last 30 semester hours of course work to be counted toward the degree.
3. A minimum of 30 semester hours in residence.
4. Two quality points (an average grade of C) for each semester hour of credit pursued, including a C average in the major field. Even though a student may have earned some of his credits in other colleges, he must earn at least a C (2.0) average on all hours pursued at Northwestern State University.
5. The completion of an approved curriculum as defined by the department concerned.

B. Core Requirements

1. Twelve semester hours in the general field of English, including English 101 and 102.
2. Six semester hours in mathematics.
3. Twelve semester hours in science, 6 in physical and 6 in biological.
4. Thirteen semester hours in the social sciences (anthropology, economics, geography, history, political science, social studies, and sociology), including Political Science 450.
5. Three hours in psychology.
6. Health 102 and 4 physical activity credits, including PE 1.¹
7. Orientation.

C. Special Requirements

On the following pages special requirements are given in the approved curricula for Bachelor of Science programs in:

Accounting	Business and Office Education
Business Administration	Business Education With A Computer
Economics	Science Minor
Advertising Design	Distributive and Business Education
Pre-Law	Secretarial Administration

REQUIREMENTS FOR THE ASSOCIATE DEGREE (Two-Year Programs)

A. General Requirements

1. A C average on all courses used to satisfy degree requirements, and a C average on all courses taken at Northwestern State University which are used to satisfy degree requirements.
2. A minimum of 30 semester hours of degree requirements in residence.

B. Special Requirements

On the following pages special requirements are given in the approved curricula for Associate Degree programs in:

Merchandising
Secretarial Administration

Also on the following pages are:

Requirements for the master's degree in Business Administration, Business Education, and Distributive Education, and for the Specialist in Education Degree in Secondary Education with a concentration in Business.

¹One hour of credit per semester earned in the Military Science Basic Course may be accepted in lieu of 1 physical activity course, with the exception of Physical Education 1.

ACCOUNTING DEPARTMENT

ACCOUNTING (101)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biological science	3	Biological science	3
English 101	3	English 102	3
Mathematics 113 or 103	3	Health 102	3
Psychology 101	3	Mathematics 114 or 109	3
Electives	3	Speech 101	3
Orientation	1	Electives	3
Physical Education 1	1	Physical education	1
	17		19

SOPHOMORE YEAR

Accounting 205	3	Accounting 206	3
Economics 201	3	Business Economics 212	3
English	3	Economics 202	3
Political Science 201	3	History 202	3
Physical science	3	Physical science	3
Physical education	1	Physical education	1
	16		16

JUNIOR YEAR

Accounting 306	3	Accounting 308	3
Accounting 318	3	Accounting 319	3
Business Economics 325	3	Computer science	3
Economics 310	3	Management 322	3
Office Administration 320	3	Marketing 323	3
Electives	3	Electives	3
	18		18

SENIOR YEAR

Accounting 402	3	Accounting 408	3
Accounting elective	3	Accounting 425 or	
Business electives (advanced) ..	3	Business Economics 326	3-2
Office Administration 403	2	Business electives (advanced) ..	3
Electives	3	Finance 411	3
		Political Science 450	1
	14		

13-12

Total hours for degree, 130-131.

ART DEPARTMENT

ADVERTISING DESIGN (113)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Art 101	3	Art 102	3
Art 103	3	Art 107	3
Art 106	3	Art 112	3
Art 111	3	English 102	3
English 101	3	Psychology 101	3
Physical Education 1	1	Health 102	3
Orientation	1	Physical education	1
	17		19

SOPHOMORE YEAR

Art 201	3	Art 205	3
Art 209	3	Art 212	3
Art 210	3	Biological science	3
Biological science	3	English	3
English	3	Marketing 221	3
Mathematics	3	Physical education	1
Physical education	1		
			16
	19		

JUNIOR YEAR

Art 350	3	Art history	3
Art history	3	Art 310	3
Art 308	3	Art 325	3
Mathematics	3	Physical science	3
Social science	3	Social science	3
Electives	3	Electives	3
	18		18

SENIOR YEAR

Art 403	3	Art 406	3
Art elective	3	Art 430	3
Marketing 382	3	Social science	3
Physical science	3	Electives	6
Social science	3		
Political Science 450	1		15
	16		

Total hours for degree, 138.

BUSINESS ADMINISTRATION DEPARTMENT

BUSINESS ADMINISTRATION (110)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biological science	3	Biological science	3
English 101	3	English 102	3
Health 102	3	Mathematics 114 or 109	3
Mathematics 113 or 103	3	Speech 101	3
Psychology 101	3	Elective	3
Physical Education 1	1	Physical education activity	1
Orientation	1		—
	—		16
	17		

SOPHOMORE YEAR

Accounting 205	3	Accounting 206	3
Business Economics 212	3	Business Economics 213	3
Economics 201	3	Economics 202	3
English	3	Physical science	3
Physical science	3	Social science elective ¹	3
Physical education activity	1	Physical education activity	1
	—		—
	16		16

JUNIOR YEAR

Business Economics 325	3	Accounting 301	3
Computer science	3	Business elective ²	3
Management 322	3	Business elective (advanced) ..	3
Marketing 323	3	Business elective	3
Elective	3	Office Administration 320	3
	—	Social science or Psychology ...	3
	15		—
			18

SENIOR YEAR

Business elective (advanced) ...	3	Business electives (advanced) ..	6
Finance 411	3	Office Administration 403	2
Management elective	3	Electives	9
Marketing elective (advanced) ..	3		—
Social science elective ¹	3		17
Political Science 450	1		
	—		
	16		

Total hours for degree, 131.

¹Excluding economics.

²Selected from Accounting 308, 318, Management 350, Economics 320 or 330.

BUSINESS ADMINISTRATION DEPARTMENT

MERCHANDISING (195)

Associate Degree Program

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Business Economics 104	3	Finance 215	3
English 101	3	English 102	3
Marketing 220	3	Marketing 221	3
Mathematics 113	3	Mathematics 114	3
Office Administration 101 or 102	2	Speech 101	3
Physical Education 1	1	Physical education activity	1
Orientation	1		—
			16
	16		

SOPHOMORE YEAR

Accounting 205	3	Accounting 206	3
Economics 201	3	Business Economics 325	3
Management 322	3	Economics 202	3
Office Administration 211	3	Marketing 323	3
Office Administration 210	2	Office Administration 212	3
Office Administration 320	3	Physical education activity	1
Physical education activity	1		—
			16
	18		

Total hours for degree, 66.

BUSINESS EDUCATION AND
OFFICE ADMINISTRATION DEPARTMENT

BUSINESS AND OFFICE EDUCATION (311)

(To Teach All Business Education Subjects)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Business Economics 104, Finance 215, or Economics 103	3	Office Administration 102 ¹	2
Office Administration 101 ¹	2	Biology 102-102L or 112	3
Biology 101-101L or 111	3	Education 102	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Social Studies 101 or 102	3
Physical Education 1	1	Physical education	1
Orientation	1		
	19		18

SOPHOMORE YEAR

Accounting 205	3	Accounting 206	3
Office Administration 201 ¹	3	Office Administration 202 ¹	3
Office Administration 203	2	Economics 202	3
Office Administration 210	2	Educational Psychology 201	3
Economics 201	3	English	3
English	3	History 201 or 202	3
Physical education	1	Physical education	1
	17		19

JUNIOR YEAR

Office Administration 317 or Management 322	3	Accounting elective	3
Office Administration 211	3	Business Economics 325	3
Office Administration 301	3	Business Education 422	3
Office Administration 320	3	Marketing 323	3
Physical science	3	Physical science	3
		Electives or Office Administration 212	3
	15		18

SENIOR YEAR

Business Education 420	3	Education 402	8
Office Administration 314	3	Education 402B	4
Education 401K	3	Educational Psychology 304	3
Political Science 450	1		
Electives	6		
	16		15

Total hours for degree, 137.

¹Students should refer to Advanced Standing Examination, Item 5.

Students interested in acquiring a second teaching field consult with head of department.

BUSINESS EDUCATION AND
OFFICE ADMINISTRATION DEPARTMENT

BUSINESS EDUCATION
WITH A COMPUTER SCIENCE MINOR¹ (31F)

FRESHMAN YEAR

FIRST SEMESTER	SEM.	HRS.	SECOND SEMESTER	SEM.	HRS.
Office Administration 101 ²	2		Office Administration 102 ²	2	
Biology 101-101L or 111	3		Office Administration 210	2	
Education 102	3		Biology 102-102L or 112	3	
English 101	3		English 102	3	
Health 102	3		Mathematics 114 or 109 ³	3	
Mathematics 113 or 103 ³	3		Social Studies 101	3	
Orientation	1		Physical education	1	
Physical Education 1	1				
		19			17

SOPHOMORE YEAR

Accounting 205	3	Accounting 206	3
Business Economics 212	3	Computer Science 201	3
Computer Science 102	3	Economics 202	3
Economics 201	3	Office Administration 212	3
Office Administration 203	2	English	3
Office Administration 211	3	Physical education	1
Physical education	1		
	18		16

JUNIOR YEAR

Accounting elective	3	Business Economics 325	3
Computer Science 301	3	Business Education 422	3
Educational Psychology 201	3	Computer Science 403 or 404 ...	3
Office Administration 320	3	English	3
Office Administration 317		Marketing 323	3
or Management 322	3	Physical science	3
Physical science	3		
	18		18

SENIOR YEAR

Business Education 420	3	Education 402	8
Computer Science 398	2	Education 402B	4
Education 401K	3	Educational Psychology 304	3
History 201 or 202	3		
Political Science 450	1		
Electives	4		
	16		15

Total hours for degree, 137.

¹This curriculum is designed for the student who will teach data processing and business education subjects except stenography. Twenty hours are considered as the minor; 14 hours of computer science and 6 hours of office administration (O A 211 and 212).

²Students should refer to Advanced Standing Examinations, Item 5.

³Students who take Mathematics 103 are expected to take 109; and students who take 113 are expected to take 114.

BUSINESS EDUCATION AND
OFFICE ADMINISTRATION DEPARTMENT

DISTRIBUTIVE AND BUSINESS EDUCATION¹ (316)

(To Teach All Business and Distributive Education
Subjects Except Stenography)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Business Economics 104, Finance 215 or Economics 103	3	Office Administration 102 ²	2
Office Administration 101 ²	2	Biology 102-102L or 112	3
Biology 101-101L or 111	3	Education 102	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Social Studies 101 or 102	3
Physical Education 1	1	Physical education	1
Orientation	1		
	19		18

SOPHOMORE YEAR

Accounting 205	3	Accounting 206	3
Marketing 220	3	Marketing 221	3
Office Administration 203	2	Economics 202	3
Office Administration 210	2	Educational Psychology 201	3
Economics 201	3	Speech 101	3
Physical science	3	Physical science	3
Physical education	1	Physical education	1
	17		19

JUNIOR YEAR

Management 322	3	English	3
Office Administration 211	3	Business Economics 325	3
Office Administration 320	3	Distributive Education 421	3
English	3	Marketing 323	3
History 201 or 202	3	Office Administration 317 or 212	3
		Distributive Education 381 ³	cr
	15		15

SENIOR YEAR

Accounting elective	3	Education 402	8
Business Education 420	3	Education 402B	4
Marketing 382	3	Educational Psychology 304	3
Education 401K	3		
Management 427	3		
Political Science 450	1		
Distributive Education 382 ³	cr		
	16		15

Total hours for degree, 134.

¹Two years of work experience required as defined by head of the department.

²Students should refer to Advanced Standing Examinations, Item 5.

³Juniors and seniors majoring in distributive education may receive credit in distributive practical experience after the experience has been verified by the department head and teacher educator.

BUSINESS EDUCATION AND OFFICE
ADMINISTRATION DEPARTMENT

SECRETARIAL ADMINISTRATION¹ (170)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Office Administration 101 ²	2	Office Administration 102 ²	2
English 101	3	Biological science	3
Health 102	3	English 102	3
Mathematics	3	Mathematics	3
Electives	3	Electives	3
Physical education activity	1	Physical Education 1	1
Orientation	1		
	16		15

SOPHOMORE YEAR

Office Administration 201 ²	3	Office Administration 202 ²	3
Office Administration 203	2	Physical science	3
Office Administration 210	2	Psychology	3
Biological science	3	Social science elective	3
English	3	Electives	3
Electives	3	Physical education activity	1
Physical education activity	1		
	17		16

JUNIOR YEAR

Office Administration 301	3	Office Administration 302 or 405	3
Office Administration 320	3	English or speech	3
Physical science	3	Social science elective	3
Electives	6	Electives	6
	15		15

SENIOR YEAR

Office Administration 314	3	Office Administration 317	3
Political Science 450	1	Office Administration 403	2
Social science elective	3	Social science elective	3
Electives	9	Electives	8
	16		16

Total hours for degree, 126.

¹In addition to the required office administration courses, the student must complete 2 minors.

²Students should refer to Advanced Standing Examination, Item 5.

BUSINESS EDUCATION AND OFFICE
ADMINISTRATION DEPARTMENT

SECRETARIAL ADMINISTRATION (186)

Associate Degree Program

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Finance 215	3	Office Administration 102 ¹	2
Office Administration 101 ¹	2	Office Administration 202 ¹	3
Office Administration 201 ¹	3	Office Administration 210	2
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Electives	3
Physical Education 1	1	Physical education activity	1
Orientation	1		—
	—		17
	19		

SOPHOMORE YEAR

Accounting 205	3	Business Economics 325 ..	3
Office Administration 203	2	Office Administration 302 or 405	3
Office Administration 301	3	Office Administration 314	3
Office Administration 320	3	Office Administration 317	3
Speech 101 or Psychology 101 ..	3	Office Administration 403	2
Physical education activity	1	Physical education activity	1
	—		—
	15		15

Total hours for degree, 66.

¹Students should refer to Advanced Standing Examinations, Item 5.

ECONOMICS DEPARTMENT

ECONOMICS (117)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biological science	3	Biological science	3
English 101	3	English 102	3
Health 102	3	Mathematics 109	3
Mathematics 113 or 103	3	Psychology 101	3
Electives	3	Electives	3
Physical Education 1	1	Physical education activity	1
Orientation	1		
	17		16

SOPHOMORE YEAR

Accounting 205	3	Accounting 206	3
Computer science	3	Business Economics 212	3
Economics 201	3	Economics 202	3
English	3	English	3
Mathematics 110	5	Physical science	3
		Physical education activity	1
	17		16

JUNIOR YEAR

Accounting 301	3	Economics 330	3
Business Economics 213	3	Economics (advanced)	3
Economics 320	3	Business elective (advanced) ..	3
Management 322	3	Marketing 323	3
Office Administration 320	3	Electives	3
Physical education activity	1	Physical science	3
	16		18

SENIOR YEAR

Business elective (advanced) ...	3	Economics (advanced)	3
Economics (advanced)	3	Economics 409	3
Office Administration 403	2	Finance 411	3
Political Science 450	1	Electives	6
Electives	6		
	15		15

Total hours for degree, 130.

PRE-LAW (158)

All students who expect to attend law school after attending Northwestern State University should maintain contact with the pre-law adviser in the Social Sciences Department regardless of their majors and in addition to any other advisers. Because a high level of undergraduate academic performance is necessary for admission to law school, the pre-law adviser is prepared to offer special information and counseling to students and will work with the student's adviser and the deans of the colleges of Business and Liberal Arts.

Most law schools prefer a bachelor's degree for admission. Law schools admitting students without an undergraduate degree require 3 years of undergraduate work outside the College of Education. However, preference is usually given to those applicants holding a degree because the likelihood of their success in law school is greater.

1. Degree programs:

FOUR YEARS

Students who desire to receive a degree before entering law school may do so by completing an appropriate curriculum. The pre-law adviser will furnish information about majors, minors, and courses which are acceptable to and/or required by law schools.

THREE YEARS

A student who enters law school at the end of 3 years may apply after successful completion of the first year of law school for credit not to exceed 30 semester hours toward a degree at Northwestern State University. In order to be eligible to receive a degree in one of the curricula in the College of Business, he should consult the dean early in his University program to secure approval of a 3-year course of study. In order to be eligible to apply for a degree in the College of Liberal Arts, he must have completed all requirements in 1 of the appropriate 4-year curricula in the College of Liberal Arts, including a major and a minor, and a total of not less than 130 semester hours.

2. Non-degree program: pre-law students who do not intend to complete an undergraduate degree should consult the pre-law adviser in the Social Sciences Department.

COLLEGE OF BUSINESS

ACCOUNTING

EARL G. THAMES, *Professor and Department Head*

Assistant Professors: Hopkins, J. Johnson, Sewell, Stewart

Lecturer: N. Brown

Undergraduate Requirements

For a major: Accounting 205, 206, 306, 308, 318, 319, 402, 408, 425 or Business Economics 326, 3 hours in accounting electives; Business Economics 212, 325; Economics 201, 202, 310; Finance 411; Management 322; Marketing 323; Office Administration 320, 403; 6 hours in advanced business electives — 64-65 semester hours. No minor is required.

Special requirements: Computer science, 3 hours; History 202; Political Science 201; Mathematics 113 or 103, 114 or 109; Speech 101.

For a minor: Accounting 205, 206, 318, 319, and 6 hours in accounting electives — 18 semester hours.

BUSINESS ADMINISTRATION

ROGER W. BEST, *Associate Professor and Department Head*

Professor: D. Townsend; *Associate Professor:* Easley;

Assistant Professors: Hix, Morrison, Towry, Wells, Williams;

Instructors: Levy, Lincecum; *Lecturers:* Murchison, J. Anders

Curricula

Undergraduate Requirements

BUSINESS ADMINISTRATION

For a major: Accounting 205, 206, 301; Business Economics 212, 213, 325; Economics 201, 202; Finance 411; Management 322, and 3 hours in management electives; Marketing 323 and 3 hours in advanced marketing electives; Office Administration 320, 403; 3 hours in restricted business electives to be selected from Accounting 308, 318, Management 350, Economics 320, and 330; 15 additional hours in business electives with at least 12 hours in advanced courses—62 semester hours.

Special requirements: computer science, 3 hours; Mathematics 113 or 103, 114 or 109; Speech 101.

For a minor: Accounting 205, 206; Management 322; Marketing 323; Economics 201, 202; 3 hours in advanced business electives—21 semester hours.

MERCHANDISING

Associate Degree (two-year program)

Requirements: Accounting 205, 206; Business Economics 104, 325; Economics 201, 202; Finance 215; Management 322; Marketing 220, 221, 323; Office Administration 101 or 102, 210, 211, 212, 320; Orientation 101; 4 hours in physical activity, including PE 1; English 101, 102; Mathematics 113, 114; Speech 101 — 66 semester hours.

Graduate Requirements

Master of Business Administration Degree

NOTE: all students enrolled in the Master of Business Administration program are required to take the Admission Test for Graduate Study in Business.

Program I. For applicants holding the baccalaureate in business.

Undergraduate preparation: a major in business.

Special requirements: Accounting 502 or 506; Business Economics 503; Economics 520; Finance 504; Management 540 and 550; Marketing 507.

Program II: For applicants holding the baccalaureate in non-business areas.

Undergraduate preparation: Accounting 205 and 206, or 301; Business Economics 212, 213; Economics 201 and 202, or 320, 310 or 330; Management 322; Marketing 323; or the equivalent.

Special requirements; Accounting 502; Business Economics 503; Economics 520; Finance 504; Management 540, 550; Marketing 507.

BUSINESS EDUCATION AND OFFICE ADMINISTRATION

TOMMY G. JOHNSON, *Assistant Professor and Department Head*

Assistant Professors: J. Johnson, Rue, Towry, Wells;

Instructor: McCoy; Lecturer: J. Anders

Curricula

Undergraduate Requirements

BUSINESS AND OFFICE EDUCATION

For a major (Education): Office Administration, 101¹, 102¹, 201¹, 202¹, 203, 210, 211, 301, 314, 320; Accounting 205, 206, and 3 hours in accounting electives; Business Economics 104 or Finance 215 or Economics 103; Business Economics 325; Business Education 420, 422; Economics 201, 202; Office Administration 317 or Management 322; Marketing 323 — 59 semester hours.

For a major (Education-Computer Science minor): Office Administration 101¹, 102¹, 203, 210, 211, 212, 320; Accounting 205, 206, and 3 hours in accounting electives; Business Economics 212, 325; Computer Science 102, 201, 301, 403 or 404, 398; Business Education 420, 422; Economics 201, 202; Office Administration 317 or Management 322; Marketing 323 — 64 semester hours.

Special requirements: Mathematics 103 and 109 or 113 and 114.

For a minor to teach business subjects with the exception of shorthand (Education)²: Accounting 205, 206, and 3 hours in accounting electives; Business Economics 104 or Finance 215 or Economics 103; Business Education 420; Office Administration 101¹, 102, 203, 210, 314, 320 — 29 semester hours.

For a minor to teach business subjects with the exception of accounting (Education)²: Office Administration 101¹, 102¹, 201¹, 202¹, 203, 210, 301, 314, 320; Business Economics 104 or Finance 215 or Economics 103; Business Education 420 — 29 semester hours.

DISTRIBUTIVE AND BUSINESS EDUCATION

For a major (Education); Office Administration 101¹, 102¹, 203, 210, 211, 317 or 212, 320; Accounting 205, 206, and 3 hours in accounting electives; Marketing 220, 221, 323, 382; Management 322, 427; Business Economics 104 or Finance 215 or Economics 103; Economics 201, 202; Business Economics 325; Business Education 420; Distributive Education 381, 382, 421 — 62 semester hours.

Special requirement: Speech 101.

SECRETARIAL ADMINISTRATION

For a major (Business): Office Administration 101¹, 102¹, 201¹, 202¹, 203, 210, 301, 302 or 405, 314, 317, 320, and 403 — 31 semester hours.

Special requirements: completion of 2 minors as defined by the department concerned.

For a minor: Office Administration 101¹, 102¹, 201¹, 202¹, 203, 210, 301, 314 — 20 semester hours.

¹Students should refer to Advanced Standing Examinations, Item 5.

²Economics 201 and 202 must be included in the curriculum of students selecting this minor. These 2 courses can be utilized in meeting social studies requirement of all education majors.

SECRETARIAL ADMINISTRATION

Associate Degree (two-year program)

Requirements: Office Administration 101¹, 102¹, 201¹, 202¹, 203, 210, 301, 302 or 405, 314, 317, 320, 403; Accounting 205; Business Economics 325; Finance 215; English 101, 102; mathematics, 6 hours; Health 102; 4 hours in physical activity, including PE 1; Speech 101 or Psychology 101; Orientation 101; 3 hours in electives — 66 semester hours.

Graduate Requirements

For the Master of Science in Education Degree

I. Business Education

Undergraduate preparation for a major: 9 semester hours in accounting, 18 semester hours in business subject to the approval of the department head; 6 hours in economic principles.

Special requirements for a major: Education 501; Business Education 510; and 2 from the following: Business Education 501, 516, 517, 518, 519, 590, 621, 622, 623 or Office Administration 508.

II. Distributive Education

Undergraduate preparation for a major: distributive education certificate, or 15 hours in the field of business including at least 6 semester hours in accounting and excluding secretarial administration; 6 semester hours in economic principles.

Special requirements for a major: 9 semester hours in technical distribution courses or professional courses in distributive education; Education 501; Distributive Education 511; and 2 from the following: Business Education 501, 516, 517, 518, 519, 590, 621, 622, 623 or Distributive Education 624.

For the Specialist in Education Degree in Secondary Teaching Concentration in Business

Special requirements: Business Education 510; a 9-hour concentration in 1 of the following areas: accounting, economics, finance, management-marketing; 9 hours selected from the following: Distributive Education 511, Business Education 516, 517, 518, 519, 621, 622, 623; and 6 hours in business electives — 27 semester hours.

A minimum of 27 semester hours of graduate credit in professional education as follows:

(a) Education 501, 520, 604, 628, Educational Psychology 546.

(b) Two courses selected from the following: Education 506, 515, Educational Psychology 541, Business Education 621, 622, 623.

(c) Two courses to be selected from the following, but excluding courses selected under (b): Education 515, 516, 518, 519, 602, Educational Psychology 442, Business Education 621, 622, 623.

(d) Three hours in electives.

(e) Thesis, 6 hours.

Minimum number of hours required: 63, including master's degree credit.

ECONOMICS

DONALD S. SLACUM, *Associate Professor and Department Head*
Professor: D. Townsend; Assistant Professors: Bretkreutz, Gibbens;
Instructor: R. Brown

Undergraduate Requirements

For a major (Business): 201, 202, 320, 330, 409; Accounting 205, 206, 301; Business Economics 212, 213; Finance 411; Office Administration 320, 403, Mar-

¹Students should refer to Advanced Standing Examinations, Item 5.

keting 323; Management 322; 9 hours in advanced economics; 6 hours in advanced business electives—59 semester hours. No minor required.

Special requirements: Computer science, 3 hours; Mathematics 113 or 103, 109, 110.

For a major (Liberal Arts); 201, 202, 320, 330, 409, and 9 hours selected from advanced economics and Social Studies 411 — 24 semester hours.

Special requirements: 12 hours of 1 foreign language; Political Science 201, 306; a minor as defined by the department concerned.

For a minor: 201, 202, 320, 330; Finance 411; 3 hours in advanced economics — 18 semester hours.

COURSES OF INSTRUCTION

ACCOUNTING

For Undergraduates Only

205. ELEMENTARY ACCOUNTING. 3 hours. Theory of debit and credit; classification of accounts; recording transactions; adjusting and closing the ledger; financial statements. Prerequisite: 24 semester hours, including 3 hours of English, 3 hours of mathematics, and 3 hours of science. Each semester.

206. ELEMENTARY ACCOUNTING. 3 hours. Continuation of 205. Each semester.

301. MANAGERIAL ACCOUNTING. 3 hours. Accounting as a tool of the executive; account valuation; construction and interpretation of statements. Prerequisite: 206 or consent of department head. Each semester.

For Undergraduates and Graduates

Courses marked with an asterisk (*) are those courses in which formal reports in lieu of a thesis may be submitted.

306. INCOME TAXES. 3 hours. Accounting procedures applied to federal and state taxes on the income of individuals. Prerequisite: 206. Each semester.

308. COST ACCOUNTING. 3 hours. Cost control of industries; job order and process cost systems. Prerequisite: 206. Spring semester.

318. INTERMEDIATE ACCOUNTING. 3 hours. Generally accepted accounting principles underlying financial statements; content and value of accounts. Prerequisite: 206. Fall semester.

319. INTERMEDIATE ACCOUNTING. 3 hours. Continuation of 318. Prerequisite: 206. Spring semester.

402. ADVANCED ACCOUNTING. 3 hours. Preparation for the CPA examination and accounting practice; partnerships, installment sales, branch accounting, statement of affairs, realization and liquidation. Prerequisite: 318 or 319. Fall semester.

404. CPA PROBLEMS. 3 hours. Accounting problems studied by means of CPA examination materials. Prerequisite: 318 or 319. Alternate years.

408. AUDITING. 3 hours. General procedures; balance sheet audits; working papers; reports. Prerequisite: 318 or 319. Spring semester.

***413. ADVANCED COST ACCOUNTING.** 3 hours. Standard cost; setting standards; analysis of variances. Prerequisite: 206. Alternate years.

***414. CORPORATION INCOME TAXES.** 3 hours. Federal and state income taxes as applied to corporations. Prerequisite: 306. Alternate years.

415. DIRECTED READING IN ACCOUNTANCY. 3 hours. Nature and theory of accounting; concepts and principles underlying financial statements and their presentation. Prerequisite: 9 hours of accounting.

416. CONSOLIDATED FINANCIAL STATEMENTS. 3 hours. Mergers, consolidated statements, foreign exchange. Prerequisite: 318 or 319. Alternate years.

***417. BUDGETARY CONTROL.** 3 hours. Purpose and classification of budgets; analysis of variances; statements and reports. Prerequisites: 308 and 319. Alternate years.

418. CONTROLLERSHIP. 3 hours. Work of the controller; accounting plans; costing and control. Prerequisites: 308 and 319. Alternate years.

***420. STATEMENT ANALYSIS.** 3 hours. Comparative analysis of financial statements; ratios; determination of asset and equity structure; planning for profitability and liquidity. Prerequisite: 319. Alternate years.

425. COMMERCIAL LAW IN ACCOUNTANCY. 3 hours. Significant problems and cases in commercial law aimed at preparing for law section of CPA examination. Prerequisite: Business Economics 325. Spring semester.

For Graduates Only

***502. ACCOUNTING POLICIES IN BUSINESS.** 3 hours. Application of accounting techniques to business with special emphasis upon interpretation of financial data, budgeting, and control. Prerequisite: 206.

***506. SEMINAR IN ACCOUNTING.** 3 hours. Revenue and cost analysis, application of budgeting, standards, and variable costing techniques to business operations. Prerequisites: 308 and 319.

BUSINESS ECONOMICS

For Undergraduates Only

104. FUNDAMENTALS OF BUSINESS ENTERPRISE. 3 hours. The American business system; business organization and management; finance; marketing; government regulation of business. (May not be elected by accounting or business administration majors who are classified 3-1 or higher.)

212. BUSINESS STATISTICS I. 3 hours. Statistical theory and methods directly applicable to the solution of business and economic problems. Topics include frequency distributions, measures of location, measures of dispersion, measures of skewness, index numbers, time series, regression analysis and correlation analysis. Prerequisite: 6 hours of mathematics.

213. BUSINESS STATISTICS II. 3 hours. Statistical inference and decision theory; probability, normal curve, sampling distribution, testing hypotheses, decision theory, estimation. Prerequisite: 212.

325. BUSINESS LAW I. 3 hours. Phases of law especially necessary in the business world and emphasizing the Uniform Commercial Code. Introduction to law; contracts, agency and employment; commercial paper; property and bailments. Prerequisite: junior standing.

400. READINGS AND DISCUSSION. 1-3 hours. Study and discussion of books in which authors deal with major problems and issues which have contemporary significance for the business community. Prerequisites: Economics 201, 202, and consent of instructor.

For Undergraduates and Graduates

***314. BUSINESS FLUCTUATIONS.** 3 hours. Causes and significance of business fluctuations or cycles; forecasting business conditions. Prerequisites: Economics 201, 202, and consent of instructor. (Same as Economics 314.)

***316 BUSINESS AND PUBLIC POLICY.** 3 hours. Relationships between government and business; government as regulator, subsidizer, partner, and competitor of private enterprise; changing nature of the American economic system. Prerequisites: Economics 201, 202. (Same as Economics 316.)

326. BUSINESS LAW II. 2 hours. Sales; partnerships; corporations; suretyship; landlord and tenant; carriers. Prerequisite: 325.

***416F. U.S. AND FOREIGN BUSINESS CENTERS.** 1-6 hours. Study tours of selected centers of business and economic activity in the United States and abroad. Prerequisite: consent of instructor.

For Graduates Only

501. READING AND CONFERENCE IN BUSINESS. 1-3 hours. Independent reading and study conferences with assigned professors.

***503. BUSINESS RESEARCH METHODS.** 3 hours. Nature and purpose of research; the problems of acquiring knowledge, validation and minimization of error; definition of meaningful questions; relevant data. Prerequisites: 212 and Office Administration 320 or consent of instructor.

598. THESIS. 3-6 hours.

BUSINESS EDUCATION

For Undergraduates Only

420. VOCATIONAL EDUCATION IN AMERICAN SCHOOLS. 3 hours. Basic principles and philosophies of cooperative vocational education. Relationship of vocational education to general education. History and development of cooperative training under the George-Barden, George-Dean acts, the Vocational Act of 1963, analysis of current legislation. Prerequisites: Education 102, Educational Psychology 201, and consent of instructor.

For Undergraduates and Graduates

422. COOPERATIVE OFFICE EDUCATION PROGRAMS. 3 hours. Methods and procedures in developing and coordinating a cooperative office education program in the secondary school. Prerequisites: Education 102, Educational Psychology 201, and consent of instructor.

For Graduates Only

501. READING AND CONFERENCE IN DISTRIBUTION. 1-3 hours. Independent reading and study in the areas of marketing and distribution; conferences with assigned professors.

***510.¹ BASIC PRINCIPLES IN BUSINESS EDUCATION.** 3 hours. Problems facing business education; principles underlying a sound program; development and evaluation of aims of business education in terms of the contribution made to the general program of secondary education.

***516. PROBLEMS IN COOPERATIVE OCCUPATIONAL EDUCATION.** 3 hours. Discussion and demonstration of new classroom procedures and teaching techniques; analysis of classroom organization and public relation responsibilities of the coordinator; analysis of pertinent legislation. Prerequisite: teaching experience, practical business experience, or consent of the instructor.

¹A student may submit a formal research paper in lieu of a thesis in only 1 of these courses: Business Education 510, 621, 622, 623; Distributive Education 511, 624.

***517. GUIDANCE FOR BUSINESS AND DISTRIBUTIVE EDUCATION.** 3 hours. Occupational surveys and job analysis to determine community opportunities and requirements for employment; placement, follow-up, and counseling for problems encountered by student workers; legislation affecting business occupations.

518. BUSINESS AND DISTRIBUTIVE EDUCATION PROGRAMS FOR ADULTS. 3 hours. Planning the promotion, supervision, and administration of adult business and distributive education programs; preparation and methods of presentation of appropriate material for adult programs; coordination of adult cooperative business and distributive education programs. Prerequisite: consent of department head.

519. DATA PROCESSING FOR TEACHERS. 3 hours. Processing and application of data processing problems by means of keypunch, sorter, accounting machine, and summary punch; uses and limitations of punched card equipment in business data processing; introduction to concepts of stored programs, flow charting and automatic coding systems; emphasis on techniques of presentation, source material, and placement of data processing units at the secondary school level. Open only to graduate education majors. Prerequisite: consent of instructor.

***521. TEACHING BUSINESS AND DISTRIBUTIVE EDUCATION TO THE DISADVANTAGED.** 1-3 hours. Analysis of current problems and discussion of proposed solutions to teaching business and distributive education subjects to the disadvantaged; type of instruction and instructional materials used and an examination of individual teacher and learner problems.

590. SEMINAR IN BUSINESS EDUCATION. 3 hours. Critical examination of current problems and the more significant research findings in business and in education, each student making a survey of 1 phase of business.

***595. RESEARCH PROBLEMS IN DISTRIBUTIVE AND BUSINESS EDUCATION.** 0-6 hours.

598. THESIS. Maximum, 6 hours.

***621.¹ IMPROVEMENT OF INSTRUCTION IN SECRETARIAL STUDIES.** 3 hours. Discussion and demonstration of new classroom procedures and teaching techniques which have developed from recent research and experimentation; stages of learning and the type of instruction and instructional materials used in each; problems of individual teachers and individual learners examined and possible solutions worked out. (Formerly 512.)

***622.¹ IMPROVEMENT OF INSTRUCTION IN BOOKKEEPING.** 3 hours. Problems and techniques related to the skills, objectives, and content of bookkeeping; source of materials and suggested techniques for instruction and testing. (Formerly 514.)

***623.¹ IMPROVEMENT OF INSTRUCTION IN GENERAL BUSINESS.** 3 hours. Study of the problems, skills, objectives, and content of general business; emphasis on techniques of presentation, testing, and source material. (Formerly 515.)

DISTRIBUTIVE EDUCATION

For Undergraduates Only

381. PRACTICAL EXPERIENCE IN DISTRIBUTIVE OCCUPATIONS I. Credit. Juniors or seniors majoring in distributive education may, after receiving approval of the department head and teacher educator, obtain actual

¹A student may submit a formal research paper in lieu of a thesis in only 1 of these courses: Business Education 510, 621, 622, 623; Distributive Education 511, 624.

experience by working a minimum of 200 hours in approved marketing positions. This work will be under the direction of the teacher educator.

382. PRACTICAL EXPERIENCE IN DISTRIBUTIVE OCCUPATIONS II. Credit. Juniors and seniors majoring in distributive education may, upon completion of 381, enroll for a second semester of practical experience. This work will be under the direction of the teacher educator.

For Undergraduates and Graduates

421. DISTRIBUTIVE EDUCATION PROGRAMS. 3 hours. Duties and responsibilities of distributive education co-ordinators; facilities, organization, and procedures for establishing programs of distributive education. Prerequisites: Education 102, Educational Psychology 201, and consent of instructor. (Formerly Business Education 421.)

For Graduates Only

***511.¹ PRACTICAL PROBLEMS IN DISTRIBUTIVE EDUCATION.** 3 hours. Analysis of current problems and discussion of proposed solutions, with particular emphasis upon policies and procedures relating to such phases of distributive education as public relations, advertising, selling, product development, competitive pricing, marketing research, marketing efficiency and control; reports on current trends. (Formerly Business Education 511.)

591. SEMINAR IN DISTRIBUTIVE EDUCATION. 3 hours. Critical examination of current problems and the more significant research findings in distributive education, each student making a survey of 1 phase of distributive education. (Formerly Business Education 591.)

***624.¹ IMPROVEMENT OF INSTRUCTION IN DISTRIBUTIVE EDUCATION.** 3 hours. Selection and improvement of techniques and materials in teaching distributive education subjects in secondary and post-secondary schools; evaluation of classroom materials, methods and current trends through a mutual sharing of ideas and experience. Prerequisite: teaching experience and DE certificate. (Formerly Business Education 624.)

ECONOMICS

For Undergraduates Only

103. DEVELOPMENT OF THE AMERICAN ECONOMIC SYSTEM. 3 hours. Survey of the background and development of economic institutions peculiar to the American free market system.

201. ECONOMIC PRINCIPLES. 3 hours. Fundamental theories underlying the present economic system in the United States; theories governing production, value, and prices; distribution of wealth and income; investment; organization of private enterprise; money and banking; the role of labor and government in industry; and America's role in the world economy. Prerequisite: sophomore standing.

202. ECONOMIC PRINCIPLES. 3 hours. Continuation of 201 with special emphasis on application of the economic theories and economic development.

205. CONSUMER ECONOMICS. 3 hours. Problems of the consumer in modern industrial societies; the consumer in relation to the forces of increasing governmental, corporate, and labor control of production and distribution. Prerequisites: 201 and 202.

¹A student may submit a formal research paper in lieu of a thesis in only one of these courses: Business Education 510, 621, 622, 623; Distributive Education 511, 624.

For Undergraduates and Graduates

310. MONEY AND BANKING. 3 hours. Origin, development, and functions of money; basic monetary theory; description of financial institutions of the United States and how they affect the volume of spending. (Same as Finance 310.) Prerequisites: 201 and 202 or consent of instructor.

***311. TAXATION AND PUBLIC FINANCE.** 3 hours. Fundamental principles and problems of public finance and taxation; amount and growth of public expenditures; sources of revenue; burden of taxation; budgetary control of receipts and expenditures; kinds of taxes; public borrowing; special emphasis on state and local taxation. Prerequisite: 201 or 202, or consent of instructor.

313. LABOR ECONOMICS. 3 hours. Historical development of the labor movement; evolution of labor law; framework, nature, and purposes of collective bargaining; union and management security; economic and other institutional factors in wage determination. Prerequisites: 201 and 202 or consent of instructor.

***314. BUSINESS FLUCTUATIONS.** 3 hours. Causes and significance of business fluctuations or cycles; forecasting business conditions. (Same as Business Economics 314.) Prerequisites 201 and 202 or consent of instructor.

***316. BUSINESS AND PUBLIC POLICY.** 3 hours. Relationships between government and business; government as regulator, subsidizer, partner, and competitor of private enterprise; changing nature of the American economic system. (Same as Business Economics 316.) Prerequisites: 201 and 202 or consent of instructor.

***320. INTERMEDIATE PRICE THEORY.** 3 hours. Principles of price determination under various market conditions, e.g., competition and monopoly; pricing of products, factors of production and their interrelationships; functional distribution of income. Prerequisites: 201 and 202 or consent of instructor.

***330. MACROECONOMIC ANALYSIS.** 3 hours. Intermediate examination of aggregate theory with emphasis on social income accounting and functional relationships between important aggregate variables; social policy implications of aggregate adjustments and their application to forecasting. Prerequisite: 202 or consent of instructor.

400. COLLECTIVE BARGAINING. 3 hours. History and structure of collective bargaining; the bargaining unit, scope, parties to the bargaining session; wages, hours, fringe benefits, and other issues; administration of contract; case studies. Prerequisite: 313 or consent of instructor.

406. SPECIAL PROBLEMS. 3 hours. Prerequisites: major or minor in economics; senior standing; and consent of instructor. (Scheduled only by arrangement with instructor.)

***407. COMPARATIVE ECONOMIC SYSTEMS.** 3 hours. Survey and analysis of selected economic systems: Capitalism, Socialism, Communism, Fascism, and Cooperatives; economic theory and history of organization and practice as exemplified in selected modern national states, especially the United States, Britain, and the U.S.S.R. Prerequisite: consent of instructor.

***409. HISTORY OF ECONOMIC THOUGHT.** 3 hours. Origins of current economic theories; schools of economic thought. Prerequisite: consent of instructor.

***412. PROBLEMS OF ECONOMIC DEVELOPMENT.** 3 hours. Problems related to economic development with emphasis on stages of development

and problems of growth. Prerequisites: 201 and 202 or consent of instructor.

416. INTERNATIONAL TRADE. 3 hours. Introduction to the pure and monetary theories of international trade with special emphasis upon current problems in international monetary equilibrium. Prerequisites: 201, 202, or consent of instructor.

For Graduates Only

500. PRINCIPLES OF ECONOMICS FOR TEACHERS. 3 or 6 hours. Macroeconomic principles, including taxation; national income, public debt; money, banks, and the Federal Reserve System; organization of business enterprise; pricing and the market system. Designed for in-service teachers in social sciences and business. Prerequisite: consent of instructor.

505. SEMINAR IN MARKETS. 3 hours. Organized commodity, stock, bond, and money markets.

***510. NATIONAL INCOME ANALYSIS.** 3 hours. Nature and measurement of economic activity; national economic aggregates; determinants of income fluctuations; forecasting national economic activity; policies affecting levels of national income. Prerequisite: 330 or consent of instructor.

514. EMERGING VALUES AND INSTITUTIONS IN BUSINESS AND SOCIETY. 3 hours. Development of values and institutions in the American economy. Prerequisites: 320, 330, or consent of instructor.

***520. MANAGERIAL ECONOMICS.** 3 hours. Application of micro-economic analysis to decision-making in the firm and in industry. Prerequisite: 320 or consent of instructor. (Same as Management 520.)

***590. SEMINAR IN ECONOMICS.** 3 hours. Reading and research on special topics in economics. Prerequisite: consent of instructor.

FINANCE

For Undergraduates Only

215. PERSONAL FINANCE. 3 hours. Budgeting, borrowing, installment purchase, insurance, buying a home, and investing. (May not be elected by accounting or business administration majors who are classified 3-1 or higher.)

For Undergraduates and Graduates

310. MONEY AND BANKING. 3 hours. Origin, development, and functions of money; basic monetary theory, description of financial institutions of the United States and how they affect the volume of spending. (Same as Economics 310.) Prerequisites: Economics 201 and 202.

313.¹ PRINCIPLES OF INSURANCE. 3 hours. Nature, business uses, and state regulation of important types of life, fire, inland marine, auto, and casualty insurance. Prerequisite: junior standing or consent of instructor.

315. REAL ESTATE. 3 hours. Principles and problems of real estate operations, including appraisal, financing, buying, selling, management, and control of realty. Prerequisite: junior standing or consent of instructor.

331.¹ PRINCIPLES OF PROPERTY AND CASUALTY INSURANCE. 3 hours. Nature and development, principles, business and personal uses of important types of property and casualty insurance. Prerequisite: junior standing.

332.¹ LIFE, ACCIDENT, AND HEALTH INSURANCE. 3 hours. Principles of life, accident, and health insurance and application to both business and personal uses. Prerequisite: junior standing.

¹Students receiving credit for Finance 313 may not enroll in or receive credit for Finance 331 or 332. Students receiving credit for Finance 331 or 332 may not enroll in or receive credit for 313.

***411. BUSINESS FINANCE.** 3 hours. Financial statement analysis; liquidity management; capital structure, leverage and cost of capital; capital budgeting; securities. Prerequisite: Accounting 206.

***412. PRINCIPLES OF INVESTMENTS.** 3 hours. Types of securities; money markets and capital markets; security analysis; portfolio management. Prerequisites: Accounting 206 and Economics 202.

For Graduates Only

***504. SEMINAR IN FINANCE.** 3 hours. Management of the flow of funds in the firm; analysis for achieving most effective utilization of funds; behavior of financial institutions and financial markets. Prerequisite: 411.

***508. RISK MANAGEMENT.** 3 hours. Case studies of significant risk management problems, including insurance management problems in business management. Prerequisite: 313.

MANAGEMENT

For Undergraduates Only

322. ORGANIZATION AND MANAGEMENT. 3 hours. Factors that provide a foundation for management practice. Evolution of management, management science, behavioral theory, organization theory, systems concepts and managerial techniques. Prerequisite; junior standing.

For Undergraduates and Graduates

350. MANAGEMENT SCIENCE TECHNIQUES. 3 hours. Major statistical and quantitative techniques useful in modern management. Prerequisites: Accounting 206 or 301; Business Economics 212 and 213.

358. PRODUCTION SYSTEMS MANAGEMENT. 3 hours. The study of the planning, analysis and control of production systems. Prerequisites: 322, Business Economics 212 and 213.

***426. MANAGEMENT SYSTEMS.** 3 hours. Development and application of the systems approach to organization, decision-making and communications, including a managerial audit of an operating system. Prerequisite: 322.

***427. PERSONNEL MANAGEMENT.** 3 hours. Industrial and personnel management with emphasis on the case study approach, independent reading and investigation, and oral presentation. Prerequisite: 322.

***430. MANAGEMENT POLICY AND SIMULATION.** 3 hours. A case-study and simulation course; emphasis on analysis and decision making; synthesis of knowledge acquired in basic courses in accounting, economics, management, marketing, finance, law, and statistics. Prerequisites: 322 and senior standing.

***432. ADVANCED MANAGEMENT.** 3 hours. Management functions, techniques for effective supervision at different managerial levels, organization theory, human relations, and communications; development of a practical philosophy of management. Prerequisite: 322.

***440. THE MANAGEMENT OF CHANGE.** 3 hours. Survey of factors relating to the accelerated rate of change and their implications for management. Areas of study include technological, social, and economic changes along with the problems of resistance to change, executive obsolescence and predictions for the future. Prerequisite: 322.

For Graduates Only

***520. MANAGERIAL ECONOMICS.** 3 hours. Application of microeco-

conomic analysis to decision making in the firm and in industry. (Same as Economics 520.) Prerequisite: Economics 320.

***540. SEMINAR IN MANAGEMENT AND ORGANIZATIONAL BEHAVIOR.** 3 hours. Survey of management organizational behavior theory with emphasis on writings in the areas of leadership, motivation, organization, communication, participation, and resistance to change. Prerequisite: 322 or consent of instructor.

***550. QUANTITATIVE METHODS.** 3 hours. Seminar in development and use of quantitative analytical techniques in decision making. Prerequisites: basic courses in accounting, economics, statistics, and mathematics or consent of instructor.

***560. MANAGERIAL DECISION-MAKING.** 3 hours. An integrating course with application of management, financial, marketing, and accounting principles in decision-making; extensive use of cases, written reports, and business simulation exercises. Prerequisite: consent of instructor.

MARKETING

For Undergraduates Only

220. SALESMANSHIP. 3 hours. Principles of retail selling, knowledge of merchandise, techniques of selling, analysis of sales experience. Not open to students with credit in 323. Prerequisite: consent of instructor.

221. RETAIL MERCHANDISING. 3 hours. Organization and management of retail establishments; store location; buying; receiving; stockkeeping, sales systems, store policies. Not open to students with credit in 323. Prerequisite: consent of instructor.

323. PRINCIPLES OF MARKETING. 3 hours. Marketing functions, channels of distribution, marketing institutions, marketing analysis, price determinants, and present-day marketing trends. Prerequisites: Economics 201, 202.

For Undergraduates and Graduates

382. MARKETING COMMUNICATIONS. 3 hours. Communication problems inherent in flow of marketing information; special emphasis in areas of advertising, sales promotion, sales analysis, and marketing research. Prerequisite: 323.

***410. MARKETING MANAGEMENT.** 3 hours. Major elements of marketing and the relationship of marketing problems to policy decisions in other divisions of business organization; emphasis on recent developments and oral presentation. Prerequisite: 323.

437. CONSUMER BEHAVIOR. 3 hours. Behavioral theories relevant to consumer motivations and buyer behavior. Special emphasis on the areas of psychology, sociology and anthropology as aids to the development of marketing policies and strategies. Prerequisite: 323.

***473. INTERNATIONAL MARKETING.** 3 hours. Marketing aspects of international business operations with relation to trade policies and operative problems of multinational firms. Prerequisite: 323.

For Graduates Only

500. SELECTED TOPICS IN DISTRIBUTION. 1-3 hours. Selected topics from the areas of channels of distribution; brand policies; sales, promotion, and advertising; price determination. Prerequisite: consent of instructor.

***507. ADVANCED PROBLEMS AND POLICIES IN MARKETING.** 3 hours. Systemic study of pricing, promotion, distribution, and product develop-

ment problems of the marketing administrator; case analysis, independent research, and oral presentation. Prerequisites: 323, Economics 201.

OFFICE ADMINISTRATION

For Undergraduates Only

101.¹ BASIC TYPEWRITING. 2 hours. Touch-typewriting through mastery of keyboard by using correct techniques; centering material; simple letter styles, with emphasis upon position, rhythm, and accuracy. Three hours weekly.

102.¹ INTERMEDIATE TYPEWRITING. 2 hours. Fundamentals of typewriting and mastery of keyboard; emphasis on speed and accuracy in production of letters, manuscripts, outlines, and tables. Three hours weekly.

201.¹ BASIC STENOGRAPHY. 3 hours. Theory and practice of the Gregg system; reading and writing from printed shorthand. Five hours weekly.

202.¹ INTERMEDIATE STENOGRAPHY. 3 hours. Continuation of 201; emphasis on the development of skill in reading and writing from printed shorthand; dictation of simple material. Five hours weekly. Prerequisites: 101, 201.

203. ADVANCED TYPEWRITING. 2 hours. Acquisition of speed and accuracy in letter writing; preparation of special reports and forms. Three hours weekly. Prerequisite: 102.

210. BUSINESS MACHINES. 2 hours. Theoretical and practical study of the various machines used in accounting and office work with emphasis upon rotary and printing calculators. Three hours weekly. Prerequisite: sophomore standing.

211. ELECTRONIC DATA PROCESSING I. 3 hours. History and development of electro-mechanical data processing; control panel of various types of equipment that make up a Unit Record Department; methods of program sketches and actual board wiring for the 548 Interpreter and 514 Reproducer; functions and operations of the 26 Card Punch and 82 Sorter.

212. ELECTRONIC DATA PROCESSING II. 3 hours. Control panel wiring with emphasis on advanced phases of programming the 85 Collator and 402 Accounting machine; practical applications of jobs handled by a Unit Record Department. Prerequisites: 211, and Accounting 205 or consent of instructor.

301. ADVANCED STENOGRAPHY. 3 hours. Dictation and transcription functionally presented; thorough review of Gregg shorthand; letter writing; skill in transcription; special emphasis on office procedure. Five hours weekly. Prerequisites: 102, 202.

302. LEGAL AND MEDICAL STENOGRAPHY. 3 hours. Advanced dictation and transcription with a continuation of the review of Gregg shorthand; specialized dictation and transcription from the medical, legal and technical fields of business to develop secretarial ability. Prerequisites: 301, 320.

314. APPLIED SECRETARIAL PROCEDURES. 3 hours. An office practice course to integrate the stenographic, typewriting, office-machine, and clerical skills through the use of actual business procedures; lecture and laboratory practice designed to develop good business judgment and initiative. Lecture 3 hours, laboratory 2 hours. Prerequisites: 203, 210, 301, 320.

317. ADMINISTRATIVE OFFICE MANAGEMENT. 3 hours. Relationship of the office function of the business enterprise including office location

¹Students should refer to Advanced Standing Examination, Item 5.

and layout, selection of office equipment and supplies, principles of office organization, supervision of office personnel, employee training programs, office services, and control of office output. Prerequisite: consent of instructor.

320. BUSINESS COMMUNICATIONS I. 3 hours. Objectives, methods, channels, and forms of communication in business. Development of psychologically sound business communications in correct and forceful English. All outside assignments must be in typewritten form. Prerequisites: English 101, 102.

403. BUSINESS COMMUNICATIONS II. 2 hours. Preparation and presentation of business reports, both oral and written; types of business reports, their form and application; research and investigation of business subjects, ranging from simple memoranda to more comprehensive reports. Prerequisites: Business Economics 212, and Management 322 or Marketing 323.

405. C.P.S. REVIEW. 3 hours. Review for secretarial administration majors preparing to take the Certified Professional Secretary examination. Prerequisites: permission of adviser and NSU sponsor of the National Collegiate Association for Secretaries.

For Graduates Only

***508. ADVANCED ADMINISTRATIVE OFFICE MANAGEMENT.** 3 hours. Analytical and philosophical approach to the office, the administrative manager, and office services. Cases, problems and discussion. Prerequisite: consent of instructor.

COLLEGE OF EDUCATION

DEPARTMENTS

Educational Media

Educational Psychology and Guidance

Elementary Education

Health, Physical Education and Recreation

Home Economics

Secondary Education

Special Education



COLLEGE OF EDUCATION

THOMAS PAUL SOUTHERLAND, *Dean*

BELIEFS, ASSUMPTIONS, AND OBJECTIVES

The primary purposes of the College of Education are to prepare well-qualified teachers for the elementary and secondary schools of Louisiana, and to offer services to school systems in Louisiana in a continuous effort to improve the total educational program. In the College of Education are the departments of Educational Media; Educational Psychology and Guidance; Elementary Education; Health, Physical Education and Recreation; Home Economics; Secondary Education; Special Education; and the Laboratory School. Most of the other departments of the University contribute to the teacher education program by advising students and providing course work in their respective areas.

The program is based upon certain beliefs and assumptions and is designed to aid the students in the realization of certain general and professional objectives.

A. Beliefs and Assumptions

1. Most of the graduates will teach in the public schools of Louisiana.¹
2. It is impossible to duplicate all possible classroom teaching situations; therefore, one of the most important tasks is to develop critical thinking and initiative.
3. Maximal development of students in teacher education depends in large part upon the members of the faculty—their qualifications, total work load, and continuing professional growth.
4. Candidates should be admitted to teacher education programs only after careful screening, with further screening thereafter.
5. Education is a profession; hence professional development courses are essential.
6. Supervised laboratory experiences are essential for the development of the prospective teacher.
7. Students in teacher education need instruction and supervised laboratory experiences in professional responsibilities other than classroom instruction.
8. Many students will need opportunities for counseling relative to professional and personal growth during their college careers.
9. Basic research in learning and teaching is a highly desirable adjunct to a good teacher-education program.
10. The teacher-education program should not end with the graduation of the student; it should provide for proper continuing placement service and in-service education. A teacher education institution must be an educational service institution.

B. General Objectives

1. Well-balanced general education
2. Reasonable mastery of that which is to be taught; that is, the curricular content of the "teaching field"
3. High degree of mastery in at least 1 field of study
4. Skill in communicating effectively
5. Knowledge, understanding and practice of good citizenship, including loyalty to the ideals of American democracy.

¹The following curricula prepare for work in fields other than teaching: Cooperative Extension-Home Economics, Home Economics-Secretarial Administration, Home Economics-Social Work, Dietetics, Interior Design, Manual Arts Therapy, Recreation, Teacher Aide. Vocational Industrial Arts Education does not provide certification to teach in secondary-elementary schools of Louisiana.

C. Professional Objectives

1. Dedication to teaching as a worthy career
2. Knowledge and appreciation of the personal advantages and opportunities in teaching as a career
3. Knowledge and understanding of the major problems and difficulties commonly encountered in a teaching career
4. Eligibility for certification as a teacher in a chosen field, particularly in Louisiana
5. Knowledge, understanding and appreciation of the ethics of the teaching profession
6. Basic scientific knowledge and understanding of normal human development, particularly in childhood and adolescence
7. Respect for the worth of the individual pupil, with desire and ability to assist in his personal development
8. Understanding that behavior is largely caused, rather than spontaneous, and the ability to use various professional ways of determining the causes of an individual's behavior
9. Basic scientific knowledge and understanding of the learning and teaching process
10. Reasonable knowledge, understanding, and skills in the highly technical process of measuring or appraising human traits, including special abilities and achievements
11. Knowledge and appreciation of the traditions, history, and major current problems or issues of education
12. Dedication to improving educational programs through service.

REQUIREMENTS FOR THE BACHELOR'S DEGREE

A. General Requirements

1. A minimum of 120 hours of academic work, exclusive of physical activity and extra-curricular activity credits.
2. The senior year in residence.
3. A minimum of 30 semester hours in residence.
4. Two quality points (an average grade of C) for each semester hour of credit pursued, including a C average in the major field and in the minor field. Even though a student may have earned some of his credits in other institutions, he still must achieve the minimum average grade of C on credits earned at Northwestern State University.
5. The completion of a certifiable major and teaching minor¹, each as defined by the department concerned, except that no minor is required in the following curricula: primary teaching, upper elementary, business, distributive education, home economics, industrial arts education, manual arts therapy, music, pre-professional speech pathology, and science. The pre-professional speech pathology curriculum requires a major in speech, elementary teaching, or English.
6. According to Louisiana standards for state certification of school personnel, all students who are candidates for teaching certificates should be registered in the College of Education **not later than the beginning of their junior year.**

NOTE: early in their college program students should consult heads of departments in which they are taking their minors.

¹Students enrolled in health and physical education, elementary education, music education, and home economics education may be certified in special education as a minor with the consent of the department head of the major field.

7. To be eligible to receive a degree in teacher education from Northwestern State University, a transfer student must be enrolled in the College of Education for a minimum of 3 regular semesters or 2 summer sessions and 2 regular semesters. The transfer student will be expected to complete the professional requirements for the degree at Northwestern State University.

B. Core Requirements¹

1. Twelve semester hours of English, including 101 and 102.
2. Thirteen semester hours of social science including Political Science 450. Social Studies 101, 102, and 6 additional semester hours in the field, including at least 3 in American history (except that Social Studies 303 is substituted for Social Studies 102 in the home economics curriculum; Economics 202 is substituted for Social Studies 102 in the business and office education and the distributive and business education curricula; and History 202 is substituted for Social Studies 102 in the early childhood and kindergarten-primary curricula).²
3. Twelve semester hours of science, 6 in physical and 6 in biological science.
4. Six semester hours in mathematics.
5. Health 102 and 4 physical activity credits, including PE 1, except in the health and physical education curricula.³
6. Orientation.

C. Professional Requirements

For secondary majors: Education 102, 401, 402, 402B; Educational Psychology 201, 304—24 semester hours.

For elementary majors⁴: Education 102, 308, 309, 310, 404, 409, 421; Educational Psychology 201, 303—38 semester hours.

D. Special Requirements

Special requirements are given in the curricula on the following pages. In all these curricula, the special requirements usually duplicate some of the core requirements.

ADMISSION TO CANDIDACY FOR A DEGREE IN TEACHER EDUCATION

A. Admission

Application for admission to candidacy for a degree in 1 of the teacher education curricula should be made during the student's first semester following his freshman year; or, in the case of transfer students from other institutions or other schools on the campus, after at least 1 semester in the College of Education.

Transfer students from other institutions must achieve a minimum average grade of "C" on all credits earned at Northwestern State University prior to being admitted to candidacy in one of the teacher education curricula.

Students who are not accepted at this time are urged to seek further counsel and to consider seriously whether they should make a change in their vocational choice. However, until a student completes the introductory courses in education (Education 102 and Educational Psychology 201), he may continue

¹Students enrolled in those curricula not programmed for teacher certification shall be required to complete the core requirements with the exception that for these students item 2 shall read "Thirteen semester hours of social science including Political Science 450."

²German majors are exempt from Social Studies 101 and 102.

³For each semester of successful work in the basic course in military science, a student may be exempt from 1 physical activity credit except P.E. 1, in the core requirements.

⁴If the methods block (309, 310, 409) is taken during a summer session, a 3-hour education elective shall be added to the program.

to schedule courses ordinarily taken by a student admitted to a degree curriculum. It will be noted that a student may not schedule professional courses in education beyond this introductory level until he has been admitted to a degree program.

A student who does not meet standards for admission because of failure at the beginning of his college career, but who has shown outstanding achievement during later semesters, may be granted limited provisional admission to a degree program by the Committee on Selective Admissions. If a student is not admitted to a degree program at the end of 6 semesters of attendance, or the equivalent, he will not again be considered for admission unless the Committee on Selective Admissions finds there are mitigating circumstances in his case.

Students will be retained in a fully qualified status only if they continue to meet the criteria for admission from semester to semester. In curricula requiring a minor, the student must designate his choice of a minor prior to admission to candidacy.

B. Criteria

1. All new students in the College of Education and those who enrolled in teacher education curricula during or since September, 1962, must complete English 101 and 102 with minimum grades of C.

A student in any of the above categories who earns or transfers a grade below a C in English 101 must repeat the course before scheduling English 102. Both English 101 and 102 must be completed before the student enrolls in English literature courses.

Exception:

In the presence of unusual or extenuating circumstances a student may, at the discretion of the Dean of the College of Education, take an appropriate comprehensive English usage test, the passage of which will substitute for a grade of C in either 1 of the above courses, but not in both. A passing grade on the usage test will not remove a grade of D from the record.

2. The completion of Education 102 with a minimum grade of C.

3. Students will not be allowed to take professional courses other than Education 102 and Educational Psychology 201 prior to admission to candidacy to 1 of the teacher education curricula.

4. Completion of all courses in the freshman year of the curriculum for which the application is being made.

5. A minimum 2.0 (C) average on all work pursued, excluding activities.

6. Freedom from incapacitating speech, hearing, and vision limitations, as well as other major physical and emotional defects.

7. Recommendation by the student's adviser and Education 102 instructor.

8. Approval by the department heads of the student's major field and minor field.

9. Approval by Elementary or Secondary department head, as appropriate.

10. Approval by Dean of Education.

C. Policies and Procedures

Applications for admission to teacher-education curricula are to be made to the Dean of the College of Education. Application forms will be provided along with a statement of policy and procedure governing admission. The office of the College of Education will distribute the complete application forms along with copies of the applicant's records to the student's adviser, the department head of the student's major field. Each of these will approve or disapprove the application. Disapproval by one of these officials will result in the group's being called together by the Chairman of the Admissions and Retentions Committee for formal consideration of the application.

Students who do not fully meet item 5 above may be admitted on a con-

ditional basis upon the recommendation of a committee composed of a student's adviser, the department head of the student's major field, the Chairman of the Admission and Retentions Committee, and the head of the appropriate department in education.

The student will be informed of his admission or rejection by the Dean of the College of Education, who will make the final decision.

A student refused admission may apply again after he has completed at least 1 additional semester or 2 summer sessions at Northwestern State University, providing he has not completed 6 semesters of college work. A student admitted on conditional basis will have his case reconsidered at the end of 1 semester.

If a student transfers to another college, or to another curriculum within Northwestern State University, for 1 regular semester or longer, and then returns to Northwestern or to his original curriculum, he will be required to complete the work prescribed in the catalogue which is in effect at the time of his return. Students who are suspended for scholastic or disciplinary reasons must adopt the catalogue which is in use at the time of their return to Northwestern. A student who remains out of school for 2 semesters and then re-enters may be required to adopt the catalogue which is in effect at the time of his return.

STUDENT TEACHING

Students will be permitted to schedule student teaching when they have met the following requirements:

A. For teaching in the elementary grades

1. Admission to candidacy for a degree in teacher-education.
2. Application for assignment in student teaching must be filed by the student with the Center for Student Teaching at the beginning of the semester prior to that in which assignment is desired.
3. Completion of 1 semester in residence at Northwestern State University immediately prior to student teaching.
4. Senior standing with an over-all C average.
5. Completion of the following courses with a C average: Education 309, 310, 409; Educational Psychology 201 and 303.
6. C average in all courses taken other than education courses.
7. Completion of Sequential Test of Educational Progress (STEP).¹

B. For teaching in the secondary grades

1. Admission to candidacy for a degree in teacher-education.
2. Application for assignment in student teaching must be filed by the student with the Center for Student Teaching at the beginning of the semester prior to that in which assignment is desired.
3. Completion of 1 semester in residence at Northwestern State University immediately prior to student teaching.
4. Senior standing with an over-all C average.
5. Completion of the following courses with a C average: Education 401; Educational Psychology 201 and 304.

¹This test is to be completed by all students in the College of Education during the 2nd semester of the sophomore year, with the exception of those students in non-teaching curricula.

6. An average of 2.0 points per semester hour in the major and minor teaching fields.
 7. The completion of three-fourths of all the courses in the student's teaching major as listed in his curriculum, including grades of C or better in any essential subjects. (Note: an essential subject is illustrated by the case of the student majoring in social sciences who would be required to have at least a C in American history before being allowed to do student teaching in American history.)
 8. Completion of Sequential Test of Educational Progress (STEP).¹
- C. All secondary student teachers are required to student teach in their major and minor fields. In cases where a student does not have a teaching minor, student teaching in the minor field may be satisfied in 1 of the following ways:
1. Completion of Education 402 and 402B in the major field.
 2. Completion of 1 of the following courses during the student teaching semester:² Education 308, 431, or Educational Psychology 442.
- D. The academic load of secondary student teachers should be limited to 15 semester hours. The academic load of elementary student teachers should be limited to 15 semester hours, 3 of which must be in Education 421.
- E. Student teachers are placed in schools in different school systems of Louisiana. While individual student needs and preferences are considered to the maximum extent permissible in each case, the University reserves the right to make assignments for student teachers in the best interests of all parties concerned.

THE LABORATORY SCHOOLS

Most of the pre-student teaching laboratory experiences are provided in the Northwestern Elementary School, Northwestern Junior High School, and Natchitoches Central High School. Pre-student teaching laboratory experience involving the theories of learning will be provided in the learning laboratories of the new Teacher Education Center.

¹This test is to be completed by all students in the College of Education during the 2nd semester of the sophomore year, with the exception of those students in non-teaching curricula.

²The course selected to satisfy student teaching in the minor area cannot be used to satisfy another program requirement.

SECONDARY EDUCATION DEPARTMENT—
ART DEPARTMENT

ART EDUCATION (307)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Art 101	3	Art 102	3
Art 103	3	Art 107	3
Art 106	3	Education 102	3
English 101	3	English 102	3
Social Studies 101	3	Health 102	3
Physical Education 1	1	Social Studies 102	3
Orientation	1	Physical education	1
	17		19

SOPHOMORE YEAR

Art 200	3	Art 201	3
Art 207	3	Art 205	3
Biology 101-101L or 111	3	Art 209	3
Educational Psychology 201	3	Biology 102-102L or 112	3
English	3	English	3
Mathematics	3	Mathematics	3
		Physical education	1
	18		19

JUNIOR YEAR

Art 304	3	Art 350	3
Art history	3	Art history	3
History 201 or 202	3	Physical science	3
Physical science	3	Social science elective	3
Electives ¹	6	Electives ¹	3
Physical education	1		
	19		15

SENIOR YEAR

Art 424	3	Education 402	8
Art electives	3	Education 402B	4
Education 401	3	Educational Psychology 304	3
Political Science 450	1		
Electives ¹	3		
	13		15

Total hours for degree, 135.

¹Electives must be chosen so as to complete a certifiable minor as defined by the department concerned.

SECONDARY EDUCATION DEPARTMENT—
BIOLOGICAL SCIENCES DEPARTMENT

BIOLOGY EDUCATION (308)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Biology 102-102L	3
Biology 124	1	Biology 125	1
English 101	3	English 102	3
Mathematics ¹	3	Education 102	3
Social Studies 101	3	Mathematics ¹	3
Physical Education 1	1	Social Studies 102	3
Orientation	1	Physical education	1
	15		17

SOPHOMORE YEAR

Biological science ²	3	Biological science ²	3
Chemistry 103-103L	4	Chemistry 104-104B	4
History 201 or 202	3	English	3
English	3	Educational Psychology 201	3
Physical education	1	Elective ³	3
Health 102	3		
			16
	17		

JUNIOR YEAR

Biological science ²	3	Biological science ²	4
Physics 203-203L	4	Physics 204-204L	4
Organic chemistry	4	Social science elective	3
Electives ³	6	Electives ³	6
Physical education	1		
			17
	18		

SENIOR YEAR

Biological science ²	3	Educational Psychology 304	3
Microbiology	4	Education 402	8
Education 401	3	Education 402B	4
Political Science 450	1		
Electives ³	6		15
	17		

Total hours for degree, 132.

¹Mathematics 105, 106, 113, 114, 115, 116 may not be used.

²See departmental core requirements.

³Electives must be chosen to fulfill the requirements for a minor.

BUSINESS EDUCATION AND
OFFICE ADMINISTRATION DEPARTMENT

BUSINESS EDUCATION
WITH A COMPUTER SCIENCE MINOR¹ (31F)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Office Administration 101 ²	2	Office Administration 102	2
Biology 101-101L or 111	3	Office Administration 210	2
Education 102	3	Biology 102-102L or 112	3
English 101	3	English 102	3
Health 102	3	Mathematics 114 or 109 ³	3
Mathematics 113 or 103 ³	3	Social Studies 101	3
Orientation	1	Physical education	1
Physical Education 1	1		
	19		17

SOPHOMORE YEAR

Accounting 205	3	Accounting 206	3
Business Economics 212	3	Computer Science 201	3
Computer Science 102	3	Economics 202	3
Economics 201	3	Office Administration 212	3
Office Administration 203	2	English	3
Office Administration 211	3	Physical education	1
Physical education	1		
	18		16

JUNIOR YEAR

Accounting elective	3	Business Economics 325	3
Computer Science 301	3	Computer Science 403 or 404 ...	3
Educational Psychology 201	3	Business Education 422	3
Office Administration 320	3	Marketing 323	3
Management 322 or Office Administration 317	3	English	3
Physical science	3	Physical science	3
	18		18

SENIOR YEAR

Business Education 420	3	Education 402	8
Computer Science 398	2	Education 402B	4
Education 401K	3	Educational Psychology 304	3
History 201 or 202	3		
Political Science 450	1		
Electives	4		
	16		15

Total hours for degree, 137.

¹This curriculum is designed for the student who will teach data processing and business education subjects except stenography. Twenty hours are considered as the minor: 14 hours of computer science and 6 hours of office administration (O A 211 and 212).

²Students should refer to Advanced Standing Examinations, Item 5.

³Students who take Mathematics 103 are expected to take 109, and students who take 113 are expected to take 114.

BUSINESS EDUCATION AND
OFFICE ADMINISTRATION DEPARTMENT

BUSINESS AND OFFICE EDUCATION (311)
(To Teach All Business Education Subjects)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Business Economics 104, Finance 215, or Economics 103	3	Office Administration 102	2
Office Administration 101 ¹	2	Biology 102-102L or 112	3
Biology 101-101L or 111	3	Education 102	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Social Studies 101 or 102	3
Physical Education 1	1	Physical education	1
Orientation	1		
	19		18

SOPHOMORE YEAR

Accounting 205	3	Accounting 206	3
Office Administration 201	3	Office Administration 202	3
Office Administration 203	2	Economics 202	3
Office Administration 210	2	Educational Psychology 201	3
Economics 201	3	English	3
English	3	History 201 or 202	3
Physical education	1	Physical education	1
	17		19

JUNIOR YEAR

Management 322 or Office Administration 317	3	Accounting elective	3
Office Administration 211	3	Business Economics 325	3
Office Administration 301	3	Business Education 422	3
Office Administration 320	3	Marketing 323	3
Physical science	3	Physical science	3
		Electives or Office Administration 212	3
	15		18

SENIOR YEAR

Business Education 420	3	Education 402	8
Office Administration 314	3	Education 402B	4
Education 401K	3	Educational Psychology 304	3
Political Science 450	1		
Electives	6		
	16		15

Total hours for degree, 137.

¹Students should refer to Advanced Standing Examinations, Item 5.

SECONDARY EDUCATION DEPARTMENT—
CHEMISTRY DEPARTMENT

CHEMISTRY EDUCATION (312)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Chemistry 103-103L	4	Chemistry 104-104A	4
English 101	3	English 102	3
Social Studies 101	3	Education 102	3
Mathematics 109 ¹	3	Health 102	3
Physical Education 1	1	Social Studies 102	3
Orientation	1	Physical education	1
	15		17

SOPHOMORE YEAR

Chemistry 211-211L	4	Chemistry 212-212L	3
Mathematics 110	5	Mathematics	5
English	3	English	3
Biology 101-101L or 111	3	Biology 102-102L or 112	3
Social science	3	Physical education	1
Physical education	1		
			15
	19		

JUNIOR YEAR

Chemistry 301-301L	4	Chemistry 302-302A or B	4-5
Educational Psychology 201	3	Education 401	3
Physics 203-203L or 251-251L-251R	4-5	Physics 204-204L or 252-252L-252R	4-5
History 201 or 202	3	Political Science 450	1
		Elective	3
	14-15		
			15-17

SENIOR YEAR

Chemistry	6	Education 402	8
Electives ²	10	Educational Psychology 304	3
		Education 402B	4
	16		
			15

Total hours for degree, 126-129.

¹Students who are deficient in high school algebra should take Mathematics 103. Credit for Mathematics 103 adds 3 hours to degree requirements.

²Electives must be chosen so as to complete a certifiable minor as defined by the department concerned.

HOME ECONOMICS DEPARTMENT

DIETETICS AND INSTITUTIONAL MANAGEMENT¹ (315)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Chemistry 103-103L	4	Home Economics 102 ²	3
English 101	3	Chemistry 104-104B	4
Health 102	3	English 102	3
Mathematics	3	Mathematics	3
Orientation	1	Social Studies 101	3
	—	Physical Education 1	1
	14		—
			17

SOPHOMORE YEAR

Home Economics 103	3	Home Economics 203	3
Home Economics 201	3	Art 108	3
English	3	Chemistry 203-203L	4
Psychology 101	3	Economics 201	3
Zoology 123-123L	3	English, Journalism, or Speech ..	3
Physical education	1	Physical education	1
	—		—
	16		17

JUNIOR YEAR

Home Economics 302	3	Home Economics 202	3
Home Economics 305	3	Home Economics 307	4
Accounting 205	3	Marketing 323	3
Chemistry 204-204L	4	Microbiology 206-206L	4
Economics 202	3	Elective	3
Sociology 101	3	Physical education	1
	—		—
	19		18

SENIOR YEAR

Home Economics 301	4	Home Economics 400	3
Home Economics 409	3	Home Economics 403	4
Home Economics 426	3	Home Economics 40A	4
Management 427	3	Political Science 450	1
Educational Psychology 201	3		—
Elective	3		12
	—		
	19		

Total hours for degree, 132.

¹This curriculum fulfills all requirements of the American Dietetic Association for internship in hospitals with approved training courses for dietitians. It does not prepare for teacher certification.

²An advanced course may be substituted if placement examinations permit.

**BUSINESS EDUCATION AND
OFFICE ADMINISTRATION DEPARTMENT**

DISTRIBUTIVE AND BUSINESS EDUCATION¹ (316)

(To Teach All Business and Distributive Education
Subjects Except Stenography)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Business Economics 104, Finance 215 or Economics 103	3	Office Administration 102	2
Office Administration 101 ²	2	Biology 102-102L or 112	3
Biology 101-101L or 111	3	Education 102	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Social Studies 101 or 102	3
Physical Education 1	1	Physical education	1
Orientation	1		
	19		18

SOPHOMORE YEAR

Accounting 205	3	Accounting 206	3
Marketing 220	3	Marketing 221	3
Office Administration 203	2	Economics 202	3
Office Administration 210	2	Educational Psychology 201	3
Economics 201	3	Speech 101	3
Physical science	3	Physical science	3
Physical education	1	Physical education	1
	17		19

JUNIOR YEAR

Management 322	3	English	3
Office Administration 211	3	Business Economics 325	3
Office Administration 320	3	Distributive Education 421	3
English	3	Marketing 323	3
History 201 or 202	3	Office Administration 317 or 212	3
		Distributive Education 381 ³	cr
	15		15

SENIOR YEAR

Accounting elective	3	Education 402	8
Business Education 420	3	Education 402B	4
Marketing 382	3	Educational Psychology 304	3
Education 401K	3		
Management 427	3		
Political Science 450	1		
Distributive Education 382 ³	cr		
	16		15

Total hours for degree, 134.

¹Two years of work experience required as defined by head of the department.

²Students should refer to Advanced Standing Examinations, Item 5.

³Juniors and seniors majoring in distributive education may receive credit in distributive practical experience after the experience has been verified by the department head and teacher educator.

HOME ECONOMICS DEPARTMENT

EARLY CHILDHOOD EDUCATION¹ (385)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Biology 102-102L	3
English 101	3	Education 102	3
Health 102	3	English 102	3
Mathematics 115	3	Geography 202	3
Social Studies 101	3	Mathematics 116	3
Physical Education 1	1	Music 30A	3
Orientation	1		—
	17		18

SOPHOMORE YEAR

Home Economics 301	4	Home Economics 105	3
Educational Psychology 201	3	Art 204	3
English ²	3	Chemistry 111	3
Library 316	3	Educational Psychology 303	3
Physics 111	3	English ²	3
Physical Education 16	1	History 201	3
	17		18

JUNIOR YEAR

Education 305 or Home Economics 301A	3	Education 311	3
Political Science 202	3	Education 418 or Home Economics 418	3
Health 316	2	Music 40	3
History 202	3	English 400	3
Speech 350	3	Social Studies 303	3
Physical Education 215	2	Physical education	1
Physical education	1		—
	17		16

SENIOR YEAR

Education 309A-309L ³	4	Education 404A	6
Education 310A-310L ³	4	Education 404B	6
Education 409A-409L ³	6	Education 421	3
Home Economics 416	3		—
Political Science 450	1		15
	18		

Total hours for degree, 136.

¹Meets requirements for certification for nursery school, day care, kindergarten and primary teaching.

²To be selected from English 203, 204, 205, 206, or 207.

³If the methods block (309, 310, 409) is taken during a summer session, a 3-hour education elective shall be added to the program.

ELEMENTARY EDUCATION DEPARTMENT

ELEMENTARY EDUCATION (387) (Kindergarten and Primary Teaching)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Education 102	3
English 101	3	Biology 102-102L	3
Health 102	3	English 102	3
Mathematics 115	3	Mathematics 116	3
Social Studies 101	3	Speech 101	3
Physical Education 1	1	Physical education	1
Orientation	1		—
	17		16

SOPHOMORE YEAR

Art 204	3	Education 308	3
English 205	3	Educational Psychology 201	3
Geography 202	3	English 206	3
History 201	3	Home Economics 301	4
Music 30A	3	Chemistry 111	3
Physics 111	3	Physical education	1
	18		17

JUNIOR YEAR

Educational Psychology 303	3	English 400	3
Education 305	3	Health 316	2
History 202	3	Social Studies 303	3
Library 316	3	Political Science 450	1
Music 40	3	Physical Education 16	1
Political Science 202	3	Physical Education 215	2
	18	Electives	6
			18

SENIOR YEAR

Education 309A-309L ¹	4	Education 404A	6
Education 310A-310L ¹	4	Education 404B	6
Education 409A-409L ¹	6	Education 421	3
Education 311	3		—
	17		15

Total hours for degree, 136.

¹If the methods block (309, 310, 409) is taken during a summer session, a 3-hour education elective shall be added to the program.

NOTE: the maximum load while student teaching is 15 hours. Education 404A, 404B, and 421 must be taken concurrently.

The student may use the electives to provide an area of concentration. Otherwise, the following courses are recommended for electives: Industrial Education 305, Speech 350, Educational Psychology 442, Special Education 446, Education 418. Nursery school certification may be added by proper selection of electives.

ELEMENTARY EDUCATION DEPARTMENT

ELEMENTARY EDUCATION (363)

(Primary Teaching)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Education 102	3
English 101	3	Biology 102-102L	3
Health 102	3	English 102	3
Mathematics 115	3	Mathematics 116	3
Social Studies 101	3	Social Studies 102	3
Physical Education 1	1	Physical education	1
Orientation	1		
	—		16
	17		

SOPHOMORE YEAR

Art 204	3	Educational Psychology 201	3
English 205	3	English 206	3
History 201	3	Political Science 202	3
Physics 111	3	History 202	3
Speech 101	3	Chemistry 111	3
Physical Education 16	1	Physical education	1
		Physical Education 215	2
	—		18
	16		

JUNIOR YEAR

Education 308	3	Educational Psychology 303	3
Geography 202	3	English 400	3
Health 316	2	Music 40	3
Library 316	3	Political Science 450	1
Music 30A	3	Electives	9
Social Studies 303	3		—
	—		19
	17		

SENIOR YEAR

Education 309A-309L ¹	4	Education 404	12
Education 310A-310L ¹	4	Education 421	3
Education 409A-409L ¹	6		—
Electives	3		15
	—		
	17		

Total hours for degree, 135.

¹If the methods block (309, 310, 409) is taken during a summer session, a 3-hour education elective shall be added to the program.

NOTE: the maximum load while student teaching is 15 hours. Education 404 and 421 must be taken concurrently.

The student may use the electives to provide an area of concentration. Otherwise, the following courses are recommended for electives: Industrial Education 305, Speech 350, Education 305, 311; Educational Psychology 442.

ELEMENTARY EDUCATION DEPARTMENT

ELEMENTARY EDUCATION (380) (Upper Elementary Teaching)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Education 102	3
English 101	3	Biology 102-102L	3
Health 102	3	English 102	3
Mathematics 115	3	Mathematics 116	3
Social Studies 101	3	Social Studies 102	3
Physical Education 1	1	Physical education	1
Orientation	1		—
	17		16

SOPHOMORE YEAR

Art 204	3	Educational Psychology 201	3
English 205	3	English 206	3
History 201	3	Political Science 202	3
Physics 111	3	History 202	3
Speech 101	3	Mathematics 220	3
Physical Education 16	1	Chemistry 111	3
	16		18

JUNIOR YEAR

Education 308	3	Educational Psychology 303	3
Geography 202	3	Health 316	2
Industrial Education 305-305L .	3	Political Science 450	1
Library 316	3	Physical education	1
Music 30B	3	Physical Education 315	2
Social Studies 303	3	Electives	9
	18		18

SENIOR YEAR

Education 309B-309L ¹	4	Education 404	12
Education 310B-310L ¹	4	Education 421	3
Education 409B-409L ¹	6		—
Electives	3		15
	17		

Total hours for degree, 135.

¹If the methods block (309, 310, 409) is taken during a summer session, a 3-hour education elective shall be added to the program.

NOTE: the maximum load while student teaching is 15 hours. Education 404 and 421 must be taken concurrently.

The student may use the electives to provide an area of concentration. Otherwise, the following courses are recommended for electives: Home Economics 301A, Educational Psychology 442, Special Education 446.

SECONDARY EDUCATION DEPARTMENT—
LANGUAGES DEPARTMENT

ENGLISH EDUCATION (320)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
English 101	3	English 102	3
Biology 101-101L or 111	3	Biology 102-102L or 112	3
Health 102	3	Education 102	3
Mathematics	3	Mathematics	3
Social Studies 101	3	Social Studies 102	3
Physical Education 1	1	Physical education	1
Orientation	1		—
	17		16

SOPHOMORE YEAR

English 203	3	English 204	3
Foreign language	5	Foreign language	5
Educational Psychology 201	3	History 201 or 202	3
Physical science	3	Physical science	3
Speech 101	3	Electives	3
Physical education	1	Physical education	1
	18		18

JUNIOR YEAR

English 309	3	English 310	3
English 320	3	English 321	3
English 400 or 411	3	History 320 or 321	3
Foreign language	3	Political Science 450	1
Electives ¹	6	Foreign language	3
	18	Electives ¹	3
			16

SENIOR YEAR

English (advanced)	9	Education 402	8
Education 401	3	Education 402B	4
Electives ¹	6	Educational Psychology 304	3
	18		15

Total hours for degree, 136.

¹Electives must be chosen so as to complete a certifiable minor as defined by the department concerned.

SECONDARY EDUCATION DEPARTMENT—
LANGUAGES DEPARTMENT

FRENCH EDUCATION (321)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
French 101	5	French 102	5
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Biology 102-102L or 112	3
Biology 101-101L or 111	3	Education 102	3
Physical Education 1	1	Physical education	1
Orientation	1		
	19		18

SOPHOMORE YEAR

French 203	3	French 204	3
English ¹	3	French 205	3
History 201 or 202	3	Speech 101	3
Physical science	3	English ¹	3
Elective ²	3	Physical science	3
Physical education	1	Physical education	1
	16		16

JUNIOR YEAR

French 300	3	French 304	3
French (above 200 level)	3	English 307	3
Educational Psychology 201	3	History 322	3
Social Studies 101	3	Social Studies 102	3
Electives ²	6	Electives ²	3
		Political Science 450	1
	18		
			16

SENIOR YEAR

French 499	2	Education 402	8
French (above 200 level)	6	Education 402B	4
Education 401	3	Educational Psychology 304	3
Electives ²	6		
			15
	17		

Total hours for degree, 135.

¹To be selected from English 203, 204, 205, 206, or 207.²Electives must be chosen so as to complete a certifiable minor as defined by the department concerned.

SECONDARY EDUCATION DEPARTMENT—
LANGUAGES DEPARTMENT

GERMAN EDUCATION (324)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
German 101	5	German 102	5
English 101	3	English 102	3
Health 102	3	Education 102	3
Mathematics	3	Mathematics	3
Biology 101-101L or 111	3	Biology 102-102L or 112	3
Physical Education 1	1	Physical education	1
Orientation	1		
	19		18

SOPHOMORE YEAR

German 201	3	German 202	3
English ¹	3	History 201 or 202	3
Physical science	3	English ¹	3
Speech 101	3	Physical science	3
Elective ²	3	Elective ²	3
Physical education	1	Physical education	1
	16		16

JUNIOR YEAR

German 301 or 401	3	German 302 or 402	3
English 400	3	English 412 or 413	3
History 101	3	History 102	3
Educational Psychology 201	3	Social science elective	3
Electives ²	6	Electives ²	6
	18		18

SENIOR YEAR

German 303	3	Education 402	8
German (advanced)	3	Education 402B	4
German 404	3	Educational Psychology 304	3
German 499	2		
Education 401	3		
Political Science 450	1		
	15		15

Total hours for degree, 135.

¹To be selected from English 203, 204, 205, 206, or 207.

²Electives must be chosen so as to complete a certifiable minor as defined by the department concerned.

DEPARTMENTS OF ELEMENTARY EDUCATION AND
HEALTH, PHYSICAL EDUCATION AND RECREATIONHEALTH AND PHYSICAL EDUCATION
AND ELEMENTARY EDUCATION (397)

(Double Major)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Health 109	3	Education 102	3
Physical Education 201	3	Physical Education 20E	2
Physical Education 30D	2	English 102	3
English 101	3	Mathematics 116	3
Mathematics 115	3	Chemistry 111	3
Physics 111	3	Social Studies 101	3
Orientation	1		—
	18		17

SOPHOMORE YEAR

Educational Psychology 201	3	Physical Education 20C	2
Physical Education 20B	2	Zoology 122-122L	4
Geography 202	3	English	3
English	3	Physical Education 356	3
Social Studies 102	3	History 201 or 202	3
Speech 101	3	Music 30B	3
	17		18

JUNIOR YEAR

Educational Psychology 303	3	Education 309B-309L ¹	4
Physical Education 20A	2	Education 310B-310L ¹	4
Art 204	3	Education 409B-409L ¹	6
Library 316	3	Health 408	2
Social Studies 303	3	Physical Education 335	3
Zoology 123-123L	3		—
	17		19

SUMMER SESSION

Education 308	3
Physical Education 355	3
Industrial Education 305	3
	—
	9

SENIOR YEAR

Dance 442	3	Education 404A	6
Health 316	2	Education 404C	6
Physical Education 413	3	Education 421	3
Physical Education 415	3		—
Physical Education 450	3		15
Political Science 202	3		
Political Science 450	1		
	18		

Total hours for degree, 148.

¹If the methods block (309, 310, 409) is taken during a summer session, a 3-hour education elective shall be added to the program.

HEALTH, PHYSICAL EDUCATION AND
RECREATION DEPARTMENT

HEALTH AND SAFETY EDUCATION (33A)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Health 109	3	Education 102	3
English 101	3	English 102	3
Mathematics	3	Mathematics	3
Microbiology 111	3	Social Studies 102	3
Social Studies 101	3	Speech 101	3
Physical Education 1	1	Physical education	1
Orientation	1		—
	17		16

SOPHOMORE YEAR

Health 408	2	Health 304	2
Educational Psychology 201	3	English	3
English	3	History 201 or 202	3
Home Economics 103	3	Physical science	3
Physical science	3	Psychology 245	3
Zoology 122-122L	4	Zoology 123-123L	3
Physical education	1	Physical education	1
	19		18

JUNIOR YEAR

Health 451	3	Physical Education 355	3
Education 308	3	Health 452	3
Physical Education 356	3	Sociology 405	3
Special Education 446	3	Special Education 461	3
Electives ¹	6	Electives ¹	6
	18		18

SENIOR YEAR

Health 494	3	Education 402B	4
Education 401 (Health)	3	Education 402	8
Educational Psychology 442	3	Educational Psychology 304	3
Political Science 450	1		
Electives ¹	6		
	16		15

Total hours for degree, 137.

¹Electives must be chosen so as to complete a certifiable minor as defined by the department concerned.

HEALTH, PHYSICAL EDUCATION AND
RECREATION DEPARTMENT

HEALTH, SAFETY, AND PHYSICAL EDUCATION (330)

(With Dance Emphasis)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Health 109	3	Dance 54	1
Dance 53	1	Dance 55	1
Physical Education 201	3	Physical Education 30A	2
Physical Education 30B	2	Education 102	3
English 101	3	English 102	3
Physical science	3	Physical science	3
Physical Education 1	1	Social Studies 101	3
Orientation	1		
	17		16

SOPHOMORE YEAR

Dance 263	1	Dance 205	2
Educational Psychology 201	3	Dance 264	1
Mathematics	3	History 201 or 202	3
Social Studies 102	3	Mathematics	3
Speech 231	3	Social science	3
Zoology 122-122L	4	Zoology 123-123L	3
	17		15

JUNIOR YEAR

Dance 359	2	Dance 360	2
Dance 442	3	Health 404 or 408	2
Health 303	3	Physical Education 355	3
Education 402C	2	Physical Education 450	3
English	3	English	3
Physical Education 356	3	Electives ¹	4
	16		17

SENIOR YEAR

Dance 443	3	Education 402	8
Physical Education 411	3	Education 402B	4
Education 401	3	Educational Psychology 304	3
Political Science 450	1		
Electives ¹	8		15
	18		

Total hours for degree, 131.

¹Electives must be chosen so as to complete a certifiable minor as defined by the department concerned.

HEALTH, PHYSICAL EDUCATION AND
RECREATION DEPARTMENT

HEALTH, SAFETY, AND PHYSICAL EDUCATION

FOR MEN (331)

(With Coaching Emphasis)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Health 109	3	Physical Education 30A	2
Dance 53	1	Education 102	3
Physical Education 201	3	English 102	3
English 101	3	Mathematics	3
Physical science	3	Physical science	3
Speech 101	3	Social Studies 101	3
Orientation	1		
	17		17

SOPHOMORE YEAR

Physical Education 204	2	Dance 263	1
Physical Education 30G	2	Physical Education 30C	2
Physical Education 315	2	Mathematics	3
Educational Psychology 201....	3	English	3
English	3	Zoology 123-123L	3
Zoology 122-122L	4	Social science	3
Social Studies 102	3	Electives ¹	3
	19		18

JUNIOR YEAR

Health 303	3	Physical Education 355	3
Health 404	2	Physical Education 30B	2
Physical Education 30D	2	Physical Education 301 or 302 ..	2
History 201 or 202	3	Education 402C	2
Physical Education 356	3	Electives ¹	9
Electives ¹	5		
	18		18

SENIOR YEAR

Physical Education 30F	2	Education 402	8
Physical Education 411	3	Education 402B	4
Physical Education 415	3	Educational Psychology 304	3
Physical Education 450	3		
Physical Education 406 or 416 ..	2		
Education 401	3		
Political Science 450	1		
	17		15

Total hours for degree, 139.

¹Electives must be chosen so as to complete a certifiable minor as defined by the department concerned.

HEALTH, PHYSICAL EDUCATION AND
RECREATION DEPARTMENT

HEALTH, SAFETY, AND PHYSICAL EDUCATION
FOR WOMEN (33G)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Dance 53	1	Dance 54	1
Physical Education 201	3	Physical Education 30A	2
Health 109	3	Education 102	3
English 101	3	English 102	3
Physical science	3	Mathematics	3
Speech 101	3	Physical science	3
Orientation	1	Social Studies 101	3
	17		18

SOPHOMORE YEAR

Dance 263	1	Physical Education 30C	2
Physical Education 30B	2	Physical Education 315	2
English	3	Physical Education 406	2
Educational Psychology 201	3	English	3
Mathematics	3	History 201 or 202	3
Social Studies 102	3	Zoology 123-123L	3
Zoology 122-122L	4	Electives ¹	3
	19		18

JUNIOR YEAR

Physical Education 30D	2	Health 303	3
Physical Education 302	2	Physical Education 355	3
Physical Education 356	3	Physical Education 30F	2
Education 402C	2	Physical Education 30G	2
Social science	3	Political Science 450	1
Electives ¹	4	Electives ¹	7
	16		18

SENIOR YEAR

Health 404	2	Education 402	8
Physical Education 411	3	Education 402B	4
Physical Education 415	3	Educational Psychology 304	3
Physical Education 450	3		
Education 401	3		15
Electives ¹	3		
	17		

Total hours for degree, 138.

¹Electives must be chosen so as to complete a certifiable minor as defined by the department concerned.

HOME ECONOMICS DEPARTMENT

HOME ECONOMICS¹ (334)

(General)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Home Economics 101 ²	3	Home Economics 102 ²	3
Home Economics 104	2	Art 108	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Social science	3
Physical Education 1	1	Physical education	1
Orientation	1		
	16		16

SOPHOMORE YEAR

Home Economics 201	3	Home Economics 103	3
Home Economics 203	3	Home Economics 304	3
English, Journalism or Speech..	3	English, Journalism, or Speech..	3
Physical science	3	Psychology 101	3
Elective ³	3	Physical science	3
Physical education	1	Physical education	1
	16		16

JUNIOR YEAR

Home Economics 302	3	Home Economics 301	4
Home Economics 305	3	Home Economics 313	2
Home Economics 310	3	Home Economics 413	2
Psychology 302	3	Biology 101-101L or 111	3
Elective ³	2	Social science	3
Zoology 123-123L	3	Elective ³	3
	17		17

SENIOR YEAR

Home Economics 303	3	Home Economics 419	3
Home Economics 403	4	Home Economics 416	3
Social science	3	Plant-Soil Science	
Political Science 450	1	345-345L	3
Electives ³	6	Sociology 405	3
		Electives ³	5
	17		
			17

Total hours for degree, 132.

¹This curriculum is designed to prepare students for positions as home economists in business and in extension service. It does not certify for teaching.

²An advanced course may be substituted if scores on a proficiency examination demonstrate superior achievement.

³Nineteen free elective hours make it possible to choose a 2nd field of interest, such as art, journalism, social work, or speech.

HOME ECONOMICS DEPARTMENT

HOME ECONOMICS EDUCATION¹ (33C)

(Vocational)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Home Economics 101 ²	3	Home Economics 102 ²	3
Home Economics 104	2	Art 108	3
English 101	3	Education 102	3
Health 102	3	English 102	3
Mathematics	3	Mathematics	3
Physical Education 1	1	Physical education	1
Orientation	1		—
	16		16

SOPHOMORE YEAR

Home Economics 201	3	Home Economics 103	3
Home Economics 203	3	Home Economics 304	3
Chemistry 107-107L	4	Chemistry 108 or 104-104B ...	3-4
English	3	Educational Psychology 201 ...	3
Social Studies 101	3	English	3
Physical education	1	Physical education	1
	17		16-17

JUNIOR YEAR

Home Economics 303	3	Home Economics 302	3
Home Economics 305	3	Home Economics 310	3
Educational Psychology 304	3	Home Economics 301	4
History 201 or 202	3	Education elective ³	3
Social Studies 303	3	Microbiology 206-206L	4
Zoology 123-123L	3		—
	18		17

SENIOR YEAR

Home Economics 313	2	Home Economics 403	4
Home Economics 416	3	Home Economics 413	2
Education 401	3	Education 402	8
Social science	3	Political Science 450	1
Electives ⁴	7		—
	18		15

Total hours for degree, 133-134.

¹This curriculum prepares a student to teach vocational home economics in Louisiana under the provisions of the Federal Act on Vocational Education and as outlined in the State Plan. A degree plan certifying for teaching either primary or upper elementary education and home economics is also possible.

²An advanced course may be substituted if scores on a proficiency examination demonstrate superior achievement.

³To be selected from Education 308, 402B, or Educational Psychology 442.

⁴Students interested in certifying in a teaching minor should contact the head of the department concerned.

HOME ECONOMICS DEPARTMENT

HOME ECONOMICS AND SECRETARIAL ADMINISTRATION¹ (394)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Home Economics 101 ²	3	Home Economics 103	3
Office Administration 102 ³	2	Office Administration 203	2
Art 108	3	Office Administration 210	2
English 101	3	English 102	3
Health 102	3	Psychology 101	3
Physical Education 1	1	Social science	3
Orientation	1	Physical education	1
	16		17

SOPHOMORE YEAR

Home Economics 201 ⁴	3	Home Economics 203	3
Office Administration 201	3	Office Administration 202	3
Biology 101-101L or 111	3	Biology 102-102L or 112	3
English	3	English, Speech, or Journalism..	3
Mathematics	3	Mathematics	3
Physical education	1	Physical education	1
	16		16

JUNIOR YEAR

Home Economics 301	4	Home Economics 302	3
Home Economics 304	3	Home Economics 313 or 310	2-3
Office Administration 301	3	Accounting 205	3
Business electives ⁵	3	Office Administration 317	3
Physical science	3	Physical science	3
Political Science 450	1	Social science	3
	17		17-18

SENIOR YEAR

Home Economics 305	3	Home Economics 403	4
Home Economics 408 or Finance 215	3	Home Economics 416	3
Home Economics 413	2	Home Economics 419	3
Office Administration 320	3	Office Administration 314	3
Social science	3	Social science	3
Electives ⁵	3		16
	17		

Total hours for degree, 132-133.

¹This curriculum does not meet certification requirements for teaching.

²An advanced course may be substituted if scores on a proficiency examination demonstrate superior achievement.

³Prerequisite: demonstrated proficiency through examination and/or 101.

⁴Prerequisite: demonstrated proficiency through examination and/or 102.

⁵Recommended electives: Marketing 220, 221.

SECONDARY EDUCATION DEPARTMENT
INDUSTRIAL EDUCATION AND TECHNOLOGY DEPARTMENT

INDUSTRIAL ARTS EDUCATION (336)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Engineering Drafting 106-106L ¹	3	Engineering Drafting 107-107L..	3
Woodworking 120-120L	3	Metals 102-102L	3
English 101	3	Education 102	3
Health 102	3	English 102	3
Mathematics ²	3	Mathematics ²	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

Electronics 104-104L	6	Graphic Arts 111-111L	3
Graphic Arts 110-110L	3	Woodworking 200-200L	3
Metals 202-202L	3	Electronics 206-206L	6
English	3	English	3
Physical science	3-4	Physical science	3-4
Physical education	1	Social Studies 101	3
	19-20		21-22

JUNIOR YEAR

Power Mechanics 214-214L	3	Industrial education electives ³ ..	6
Industrial education electives ³ ..	6	Shop Organization and	
Biology 101-101L or 111	3	Management 308-308L	3
Educational Psychology 201	3	Biology 102-102L or 112	3
Social Studies 102	3	History 201	3
Physical education	1	Political Science 450	1
		Elective	3
	19		
			19

SENIOR YEAR

Industrial education electives ³ ..	6	Education 402	8
Education 401	3	Educational Psychology 304	3
Educational Psychology 442	3	Education elective	3
Social science	3		
	15		14

Total hours for degree, 140-142.

¹Students may take a proficiency test if 2 units of mechanical drawing were completed in high school.

²Mathematics 103 and 109 are recommended in this curriculum.

³Electives must be chosen so as to complete 12 hours in each of 3 areas of concentration.

SECONDARY EDUCATION DEPARTMENT—

INDUSTRIAL EDUCATION AND TECHNOLOGY DEPARTMENT

INDUSTRIAL EDUCATION (Vocational)¹ (382)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Engineering Drafting 106-106L ²	3	Educational Psychology 201	3
Education 102	3	Principles of Vocational	
English 101	3	Education 126	3
Mathematics	3	English 102	3
Social science	3	Mathematics	3
Physical science	3	Social science	3
Orientation	1	Physical science	3
	19		18

SOPHOMORE YEAR

Examination in the trade in which the student is certified to teach.³

JUNIOR YEAR

Cooperative Part-Time and Evening School 212	3	Organization and Administration of Industrial Education 314	3
Education 308	3	Job Analysis 211	3
Economics 201	3	Economics 202	3
Methods of Teaching Related Trade Courses 322	3	Educational Psychology 304	3
Elective	3	Elective	3
Biology 101-101L or 111	3	Biology 102-102L or 112	3
	18		18

SENIOR YEAR

Planning and Equipping the Industrial Education Shop 407 or Shop Organization & Management 308-308L	3	Industrial education electives ..	6
Industrial education elective ...	3	Education 402	8
Economics 313	3	Elective	3
Education 401	3	Political Science 450	1
Elective	3		18
	15		

Total hours for degree, 122 academic hours.

¹Students pursuing this curriculum are excused from certain core requirements. Completion of the curriculum does not qualify the student for a certificate to teach in the secondary schools of the state.

²Students may take a proficiency test if 2 units of mechanical drawing were completed in high school.

³A student who has earned 30 semester hours of credit at Northwestern may receive a maximum of 32 semester hours in trade experience after he has successfully completed a trade test.

ART AND HOME ECONOMICS DEPARTMENTS

INTERIOR DESIGN¹ (393)

(Home Economics)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Art 101	3	Art 102	3
Art 103	3	Art 114	3
Art 113	3	English 102	3
Home Economics 101	3	Health 102	3
English 101	3	Mathematics	3
Physical Education 1	1	Physical education	1
Orientation	1	Psychology 101	3
	17		19

SOPHOMORE YEAR

Art 205	3	Art 208	2
Home Economics 203	3	Art 320	3
Anthropology	3	English, Speech or Journalism ..	3
Biology 101-101L or 111	3	Marketing 220	3
Social science	3	Mathematics	3
Speech	3	Biology 102-102L or 112	3
Physical education	1	Physical education	1
	19		18

JUNIOR YEAR

Art 309	2	Art 427	3
Home Economics 302	3	Home Economics 301	4
Home Economics 305 or 408	3	Home Economics 310	3
Marketing 221	3	Physical science	3
Physical science	3	Elective	3
Social science	3		
	17		16

SENIOR YEAR

Art 419	3	Home Economics 425	6
Home Economics 313	2	Home Economics 413	2
Home Economics 412	3	Home Economics 416	3
Political Science 450	1	Social science	3
Electives	6		
	15		14

Total hours for degree, 135.

¹This curriculum does not prepare for teacher certification.

ELEMENTARY EDUCATION DEPARTMENT

LIBRARIANSHIP—ELEMENTARY EDUCATION (344)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Biology 102-102L	3
English 101	3	Education 102	3
Health 102	3	English 102	3
Mathematics 115	3	Mathematics 116	3
Social Studies 101	3	Social Studies 102	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

Library 102	3	Library 206	3
Educational Psychology 201	3	Library 316	3
History 201	3	Geography 202	3
Office Administration 101 ¹	(2)	History 202	3
Physics 111	3	Chemistry 111	3
Speech 101	3	Social Studies 303	3
Physical Education 16	1		
	16		18

JUNIOR YEAR

Library 201	3	Library 317	3
Library 308 (Education 308) ...	3	Education 309A or 309B-309L...	4
Art 204	3	Education 310A or 310B-310L...	4
Educational Psychology 303	3	Education 409A or 409B-409L...	6
English 205	3	English 206	3
Physical education	1		
	16		20

SENIOR YEAR

Library 318	3	Library 410B ²	4
Library 407	3	Education 404A	6
English 400 or Mathematics 220 ³ .	3	Education 421	3
Health 316	2		
Music 30A or 30B	3		
Physical Education 215 or 315 ..	2		13
Political Science 450	1		
	17		

Total hours for degree, 133.

¹This may be waived if typing proficiency is shown.

²Library 410B is equivalent to Education 402B.

³English 400 is required of primary majors and Mathematics 220 required of upper elementary majors.

NOTE: it should be noted that modern foreign language is required for graduate work in this field.

SECONDARY EDUCATION DEPARTMENT

LIBRARIANSHIP—SECONDARY EDUCATION (345)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Library 102	3	Library 201	3
English 101	3	Education 102	3
Health 102	3	English 102	3
Mathematics	3	Mathematics	3
Office Administration 101 ¹	(2)	Social Studies 102	3
Social Studies 101	3	Physical education	1
Physical Education 1	1		
Orientation	1		
	17		16

SOPHOMORE YEAR

Library 206	3	Library 316	3
Biology 101-101L or 111	3	Biology 102-102L or 112	3
Educational Psychology 201	3	English ²	3
English ²	3	Physical education	1
Speech 101	3	Electives in teaching minor	6
Elective in teaching minor	3		
	18		16

JUNIOR YEAR

Education 308	3	Library 318	3
Library 317	3	History 202	3
History 201	3	Physical science	3
Physical science	3	Political Science 450	1
Elective	3	Physical education	1
Elective in teaching minor	3	Electives	6
	18		17

SENIOR YEAR

Library 309	3	Library 410 ³	8
Library 407	3	Education 402B	4
Education 401	3	Educational Psychology 304	3
Electives in teaching minor	6		
	15		15

Total hours for degree, 132.

¹This may be waived if typing proficiency is shown.

²To be selected from English 203, 204, 205, 206, or 207.

³This is equivalent to Education 402.

NOTE: It should be noted that modern foreign language is required for graduate work in this field.

SECONDARY EDUCATION DEPARTMENT—
INDUSTRIAL EDUCATION AND TECHNOLOGY DEPARTMENT

MANUAL ARTS THERAPY (346)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Engineering Drafting 106-106L ¹	3	Electronics 104-104L	6
Biology 101-101L	3	Engineering Drafting 107-107L..	3
English 101	3	English 102	3
Health 102	3	Social Studies 102	3
Social Studies 101	3	Zoology 123-123L	3
Physical Education 1	1		
Orientation	1		
	17		18

SOPHOMORE YEAR

Metals 102-102L	3	Graphic Arts 111-111L	3
Woodworking 110-110L	3	Woodworking 120-120L	3
Literature	3	Education 102	3
History 201	3	Literature	3
Physics 111	3	Chemistry 111	3
Physical education	1	Physical education	1
	16		16

JUNIOR YEAR

Engineering Drafting 202-202L..	3	Industrial Crafts 306-306L	3
Woodworking 200-200L	3	Shop Organization and	
Mathematics	3	Management 308-308L	3
Educational Psychology 201	3	Physical Education 355	3
Sociology 101	3	Mathematics	3
Physical education	1	Education 401	3
Political Science 450	1	Speech 101	3
	17		18

SENIOR YEAR

Engineering Drafting 303-303L		Manual Arts Therapy 330 ²	3
or 304-304L	3	Manual Arts Therapy 331 ²	6
Educational Psychology 304	3	Manual Arts Therapy 332 ²	6
Education 402	8		
Psychology 445	3		
	17		15

Total hours for degree, 134.

¹Students may take a proficiency test if 2 units of mechanical drawing were completed in high school.

²These courses comprise the last semester's work and are completed at an affiliated V.A. Hospital.

SECONDARY EDUCATION DEPARTMENT—
MATHEMATICS DEPARTMENT

MATHEMATICS EDUCATION (347)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Mathematics 103 ¹	3	Mathematics 110	5
Mathematics 109 ¹	3	Education 102	3
English 101	3	English 102	3
Health 102	3	Social Studies 102	3
Social Studies 101	3	Biology 101-101L ²	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		18

SOPHOMORE YEAR

Mathematics 211	5	Mathematics 310	3
Biology 102-102L ²	3	Chemistry 104-104B or Physics	
Chemistry 103-103L or Physics		252-252L-252R	4-5
251-251L-251R	4-5	English	3
English	3	History 201 or 202	3
Physical education	1	Physical education	1
		Electives ⁴	3
	16-17		17-18

JUNIOR YEAR

Mathematics 302	3	Mathematics 415	3
Mathematics elective ³	3	Political Science 450	1
Educational Psychology 201	3	Education 401	3
Electives ⁴	6	Electives ⁴	9
	15		16

SENIOR YEAR

Mathematics electives ³	6	Educational Psychology 304	3
Social science	3	Education 402	8
Electives ⁴	6	Education 402B	4
	15		15

Total hours for degree, 129-131.

¹Students who score sufficiently high on placement test may be awarded credit for these courses if they successfully complete the next course in the sequence.²Students who plan to minor in general science must also schedule 124 and 125.³Selected from 300 or 400 level mathematics courses as prescribed under mathematics department requirements.⁴Electives must be chosen so as to complete a certifiable minor as defined by the department concerned and approved by the State Department of Education.

SECONDARY EDUCATION DEPARTMENT—
MUSIC DEPARTMENT

MUSIC (Instrumental) (35A)

(Teacher Preparation)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Applied music major	1	Applied music major	1
Applied music electives ¹	2	Applied music electives ¹	2
Music 105	3	Music 106	3
Music 131 (Band) ²	1	Music 107	2
Music 134 (Orchestra)	cr.	Music 131 ²	1
Music 150	cr.	Music 134	cr.
English 101	3	Music 150	cr.
Health 102	3	English 102	3
Social Studies 101	3	Education 102	3
Physical Education 1	1	Social Studies 102	3
Orientation	1	Physical education	1
	18		19

SOPHOMORE YEAR

Applied music major	2	Applied music major	2
Applied music electives ¹	3	Applied music electives ¹	3
Music 131 ²	1	Music 131 ²	1
Music 134	cr.	Music 134	cr.
Music 150	cr.	Music 150	cr.
Music 205	3	Music 206	3
English	3	English	3
Educational Psychology 201	3	Mathematics 105	3
Biology 111	3	Biology 112	3
Physical education	1	Physical education	1
	19		19

JUNIOR YEAR

Applied music major	2	Applied music major	2
Applied music electives ¹	3	Applied music electives ¹	2
Music 131 ²	1	Music 131 ²	1
Music 134	1	Music 134	cr.
Music 150	cr.	Music 150	cr.
Music 304	2	Music 302	3
Music 307	3	Music 304A	2
Music 405	3	Music 308	3
Mathematics 106	3	Education 401B	3
		Physical Science	3
	18		
			19

(Continued)

SECONDARY EDUCATION DEPARTMENT—
MUSIC DEPARTMENT

MUSIC (Instrumental)—Continued (35A)

SENIOR YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Applied music major	2	Applied music major	1
Applied music electives ¹	2	Music 131 ² or 134	1
Music 131 ²	1	Educational Psychology 304	3
Music 134	1	Education 402I ³	4
Music 150	cr.	Education 404I ³	4
Music 401	3		—
Political Science 450	1		13
Social Science elective	3		
History 201 or 202	3		
Physical science	3		
	—		
	19		

Total hours for degree, 144.

¹The applied music electives must include credit in piano, woodwind, brass, string and percussion instruments.

²String majors receive 1 semester hour in orchestra and "credit" in band.

³A total of 8 hours in student teaching is required of instrumental music majors. This is to be divided equally between the elementary and secondary levels.

SECONDARY EDUCATION DEPARTMENT—
MUSIC DEPARTMENT

MUSIC (Instrumental) (35I)
(Teacher Preparation)
FIVE-YEAR PROGRAM (OPTIONAL)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Applied music major	1	Applied music major	1
Applied music electives ¹	1	Applied music electives ¹	2
Music 105	3	Music 106	3
Music 131	1	Music 107	2
Music 134	1	Music 131 ²	1
Music 150	cr.	Music 134	cr.
English 101	3	Music 150	cr.
Education 102	3	English 102	3
Physical Education 1	1	Educational Psychology 201	3
Orientation	1	Physical education	1
	—		—
	15		16

SOPHOMORE YEAR

Applied music major	2	Applied music major	2
Applied music electives ¹	2	Applied music electives ¹	2
Music 131 ²	1	Music 131 ²	1
Music 134	1	Music 134	cr.
Music 150	cr.	Music 150	cr.
Music 205	3	Music 206	3
English	3	English	3
Mathematics 105	3	Mathematics 106	3
Physical education	1	Social Studies 101	3
	—		—
	16		17

JUNIOR YEAR

Applied music major	1	Applied music major	2
Applied music electives ¹	2	Applied music electives ¹	2
Music 131 ²	1	Music 131 ²	1
Music 134	cr.	Music 134	cr.
Music 150	cr.	Music 150	cr.
Music 307	3	Music 302	3
Physical science	3	Music 308	3
Social Studies 102	3	Social science elective	3
Health 102	3	Elective	3
	—		—
	16		17

(Continued)

SECONDARY EDUCATION DEPARTMENT—
MUSIC DEPARTMENT

MUSIC (Instrumental) FIVE-YEAR PROGRAM (OPTIONAL)

—Continued (35I)

SENIOR YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Applied music major	1	Applied music major	2
Applied music electives ¹	2	Applied music electives ¹	2
Music 131 ²	1	Music 131 ²	1
Music 134	cr.	Music 134	cr.
Music 150	cr.	Music 150	cr.
Music 401	3	Music 304A	2
Music 304	2	Education 401B	3
Music 405	3	Physical science	3
Biology 111	3	Elective	3
History 201 or 202	3		—
	—		16
	18		

FIFTH YEAR (PROFESSIONAL)

Applied music major	2	Education 402I ³	1-5
Applied music electives ¹	2	Education 404I ³	1-5
Music 131 or 134	1		
Elective	3		
Biology 112	3		
Political Science 450	1		
Physical education	1		
Educational Psychology 304	3		
	—		—
	16		10

Total hours for degree, 157.

¹Applied music electives must include credit in piano, woodwind, brass, string and percussion instruments.

²String majors receive 1 semester hour in orchestra and "credit" in band. Instrumental majors must be in band and orchestra every semester of residence.

³Eight hours in student teaching is required of instrumental music majors.

SECONDARY EDUCATION DEPARTMENT—
MUSIC DEPARTMENT**MUSIC (Piano) (35B)**
(Teacher Preparation)**FRESHMAN YEAR**

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Music 112A	2	Music 122A	2
Music 11S	1	Music 21S	1
Music 105	3	Music 106	3
Music 150	cr.	Music 107	2
Music activity ¹	1	Music 150	cr.
English 101	3	Music activity ¹	1
Health 102	3	English 102	3
Social Studies 101	3	Education 102	3
Physical Education 1	1	Social Studies 102	3
Orientation	1	Physical education	1
	18		19

SOPHOMORE YEAR

Music 212A	2	Music 222A	2
Music 31S	1	Music 41S	1
Music 150	cr.	Music 150	cr.
Music 205	3	Music 206	3
Music activity ¹	1	Music activity ¹	1
English	3	English	3
Mathematics 105	3	Mathematics 106	3
Biology 111	3	Biology 112	3
Physical education	1	Physical education	1
	17		17

JUNIOR YEAR

Music 312A	2	Music 322A	2
Music 51S	1	Music 61S	1
Music 150	cr.	Music 150	cr.
Applied music elective	2	Music 302	3
Music 307	3	Music 303 or 304	2
Physical science	3	Music 308	3
Educational Psychology 201	3	Education 401E ²	3
Education 401C	3	Educational Psychology 304	3
	17		17

(Continued)

SECONDARY EDUCATION DEPARTMENT—
MUSIC DEPARTMENT

MUSIC (Piano)—Continued (35B)

SENIOR YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Music 413A	3	Music 423A	3
Applied music elective	2	Applied music elective	2
Music 150	cr.	Music 150	cr.
Music 401	3	Music elective ³	4
Education 402P	1	Education 402P	2
Education 404P	1	Education 404P	2
History 201 or 202	3	Social science elective	3
Physical science	3	Political Science 450	1
	16		17

Total hours for degree, 138.

¹At least 2 music activity hours must be in chorus.²Not required of students with a double major in Piano and Vocal Music.³Must be taken from 301, 305, 306, 402, 403, 404, 405, 406, 409, 431 or 450.

SECONDARY EDUCATION DEPARTMENT—
MUSIC DEPARTMENT

MUSIC (Vocal) (35C)
(Teacher Preparation)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Music 112C	2	Music 122C	2
Music 11A	1	Music 21A	1
Music 105	3	Music 106	3
Music 132, 133 or 138	1	Music 107	2
Music 150	cr.	Music 132, 133 or 138	1
English 101	3	Music 150	cr.
Health 102	3	English 102	3
Social Studies 101	3	Education 102	3
Physical Education 1	1	Social Studies 102	3
Orientation	1	Physical education	1
	18		19

SOPHOMORE YEAR

Music 212C	2	Music 222C	2
Music 31A	1	Music 41A	1
Music elective (applied)	1	Music elective (applied)	1
Music 132, 133 or 138	1	Music 132, 133 or 138	1
Music 150	cr.	Music 150	cr.
Music 205	3	Music 206	3
Biology 111	3	Biology 112	3
Educational Psychology 201	3	English	3
Mathematics 105	3	Mathematics 106	3
Physical education	1	Physical education	1
	18		18

JUNIOR YEAR

Music 312C	2	Music 322C	2
Music 51A	1	Music 61A	1
Music 132, 133 or 138	1	Music 132, 133 or 138	1
Music 150	cr.	Music 150	cr.
Music 303	2	Music 302	3
Music 307	3	Music 303A	2
Education 401 D	3	Music 308	3
English	3	Music elective (applied)	1
Physical science	3	Education 401A	3
Elective	1	Political Science 450	1
		Elective	2
	19		
			19

(Continued)

SECONDARY EDUCATION DEPARTMENT—
MUSIC DEPARTMENT

MUSIC (Vocal)—Continued (35C)

SENIOR YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Music 413C	3	Music 423C	3
Music 404 or 452	3	Music 132, 133 or 138	1
Music 132, 133 or 138	1	Educ. Psy. 304	3
Music 150	cr.	Education 402V ¹	2
Music 401	3	Education 404X ¹	2
Social science elective	3	Education 404Y ¹	2
History 201 or 202	3		
Physical science	3		
	19		13
Total hours for degree, 143.			

Vocal music majors must be in chorus every semester of residence.

¹A total of 6 hours in student teaching is required of vocal music education majors. It is recommended that Education 404X and Education 404Y be divided between 2 semesters when possible.

SECONDARY EDUCATION DEPARTMENT—
MUSIC DEPARTMENT

MUSIC (Vocal) FIVE-YEAR PROGRAM (OPTIONAL) (35V)
(Teacher Preparation)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Music 112C	2	Music 122C	2
Music 11A	1	Music 21A	1
Music 105	3	Music 106	3
Music 132, 133 or 138	1	Music 107	2
Music 150	cr.	Music 132, 133 or 138	1
English 101	3	Music 150	cr.
Health 102	3	Education 102	3
Physical Education 1	1	English 102	3
Orientation	1	Physical education	1
	—		—
	15		16

SOPHOMORE YEAR

Music 212C	2	Music 222C	2
Music 31A	1	Music 41A	1
Applied music elective	1	Applied music elective	1
Music 132, 133 or 138	1	Music 132, 133 or 138	1
Music 150	cr.	Music 150	cr.
Music 205	3	Music 206	3
English	3	English	3
Social Studies 101	3	Social Studies 102	3
Physical education	1	Educational Psychology 201	3
	—		—
	15		17

JUNIOR YEAR

Music 312C	2	Music 322C	2
Music 51A	1	Music 61A	1
Music 132, 133 or 138	1	Music 132, 133 or 138	1
Music 150	cr.	Music 150	cr.
Music 307	3	Music 303A	2
Music 303	2	Music 308	3
Mathematics 105	3	Mathematics 106	3
Biology 111	3	Biology 112	3
Elective	3	Political Science 450	1
	—	Physical education	1
	18		17

SECONDARY EDUCATION DEPARTMENT—
MUSIC DEPARTMENT

MUSIC (Vocal) FIVE-YEAR PROGRAM (OPTIONAL)
—Continued (35V)

SENIOR YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Music 413C	3	Music 423C	3
Music 132, 133 or 138	1	Music 132, 133 or 138	1
Music 150	cr.	Music 150	cr.
Music 401	3	Music 302	3
Physical science	3	Education 401A	3
Education 401D	3	Educational Psychology 304	3
Applied music elective	1	Physical science	3
Music 404 or 452	3		
	17		16

FIFTH YEAR (PROFESSIONAL)

Music 132, 133 or 138	1	Education 402V	1-4
Electives	6	Education 404X ¹	1-4
History 201 or 202	3	Education 404Y ¹	1-4
Social science elective	3		
	13		12

Total hours for degree, 156.

Vocal music majors must be in chorus every semester of residence.

¹A total of 6 hours in student teaching is required of vocal music education majors. It is recommended that Education 404X and Education 404Y be divided between 2 semesters when possible.

SECONDARY EDUCATION DEPARTMENT—
PHYSICS DEPARTMENT

PHYSICS EDUCATION (354)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Chemistry 103-103L	4	Chemistry 104-104B	4
English 101	3	English 102	3
Mathematics 109 ¹	3	Education 102	3
Social Studies 101	3	Mathematics 110	5
Physical Education 1	1	Physical education	1
Orientation	1		
	15		16

SOPHOMORE YEAR

Physics 251-251L-251R	5	Physics 252-252L-252R	5
English	3	English	3
Health 102	3	Educational Psychology 201	3
Mathematics 211	5	Mathematics 313	3
Physical education	1	Social Studies 102	3
	17		17

JUNIOR YEAR

Physics 101-101L	3	Physics 102-102L	3
Physics 409	3	Physics 410	3
Biology 101-101L	3	Biology 102-102L	3
History 201 or 202	3	Education 401	3
Elective ²	3	Elective ²	3
Physical education	1	Political Science 450	1
	16		16

SENIOR YEAR

Technical electives ³	6	Educational Psychology 304	3
Social science elective	3	Education 402	8
Electives ²	6	Education 402B	4
	15		15

Total hours for degree, 127¹.

¹Students who are deficient in algebra should take Mathematics 103. Credit in this course adds 3 semester hours to degree requirements.

²Electives must be chosen so as to complete a minor as defined by the department concerned.

³These electives must be chosen from physics, mathematics, and chemistry.

SECONDARY EDUCATION DEPARTMENT
LANGUAGES AND SPECIAL EDUCATION DEPARTMENTS

PREPROFESSIONAL SPEECH PATHOLOGY—
ENGLISH EDUCATION (31H)

FRESHMAN YEAR

FIRST SEMESTER	SEM.	HRS.	SECOND SEMESTER	SEM.	HRS.
English 101	3		English 102	3	
Biology 101-101L	3		Biology 102-102L	3	
Education 102	3		Health Education 102	3	
Mathematics	3		Mathematics	3	
Social Studies 101	3		Social Studies 102	3	
Physical Education 1	1		Physical education	1	
Orientation	1				
		17			16

SOPHOMORE YEAR

English 203	3	English 204	3
Educational Psychology 201	3	Chemistry 111	3
Foreign language	5	Foreign language	5
Physics 111	3	History 201 or 202	3
Special Education 370	3	Special Education 372	3
Special Education 371	3	Special Education 454	3
Physical education	1		
	21		20

JUNIOR YEAR

English 309	3	English 310	3
English 320	3	English 321	3
English 400 or 411	3	Foreign language	3
Foreign language	3	History 320 or 321	3
Special Education 446	3	Psychology 205	3
Special Education 458	3	Special Education 459	3
Physical education	1		
	19		18

SENIOR YEAR

English elective	3	Education 402	8
English (advanced)	6	Educational Psychology 303 or 442	3
Education 401	3	Educational Psychology 304	3
Political Science 450	1		
Special Education 450	2		
Special Education 470	3		
	18		14

Total hours for degree, 143.

SPECIAL EDUCATION DEPARTMENT

PREPROFESSIONAL SPEECH PATHOLOGY IN
PRIMARY EDUCATION (31C)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Art 204	3	Biology 102-102L	3
Biology 101-101L	3	English 102	3
English 101	3	Education 102	3
Health 102	3	Mathematics 115	3
Social Studies 101	3	Social Studies 102	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

Educational Psychology 201	3	Educational Psychology 303	3
English ¹	3	English ¹	3
History 201	3	History 202	3
Geography 202	3	Music 30A	3
Mathematics 116	3	Physical Education 16	1
Special Education 370	3	Physical Education 215	2
Physical education	1	Special Education 372	3
	19		18

JUNIOR YEAR

Education 308	3	English 400	3
Educational Psychology 442	3	Chemistry 111	3
Health 316	2	Political Science 450	1
Library 316	3	Psychology 447	3
Physics 111	3	Social Studies 303	3
Special Education 371	3	Special Education 450	2
Special Education 458	3	Special Education 454	3
		Special Education 459	3
	20		21

SENIOR YEAR

Education 309A-309L ²	4	Education 404	12
Education 310A-310L ²	4	Education 421	3
Education 409A-409L ²	6		
Special Education 446	3		
Special Education 470	3		
	20		15

Total hours for degree, 146.

¹To be selected from English 203, 204, 205, 206, or 207.²If the methods block (309, 310, 409) is taken during a summer session, a 3-hour education elective shall be added to the program.

DEPARTMENT OF SPECIAL EDUCATION

PREPROFESSIONAL SPEECH PATHOLOGY
AND SPEECH EDUCATION (31D)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Speech 101	3	Speech 102	3
Biology 101-101L or 111	3	Biology 102-102L or 112	3
English 101	3	English 102	3
Health 102	3	Education 102	3
Social Studies 101	3	Social Studies 102	3
Physical Education 1	1	Speech activity	1
Orientation	1	Physical education	1
	17		17

SOPHOMORE YEAR

Speech 205	3	Speech 201	3
Speech 231	3	Speech 232	3
Speech activity	1	Speech activity	1
English ¹	3	English ¹	3
Mathematics	3	Mathematics	3
Physical science	3	Physical science	3
Physical education	1	Physical education	1
	17		17

JUNIOR YEAR

Speech 321	3	Speech 350 or 351	3
Speech 353	3	Speech 432	3
Educational Psychology 201 ...	3	English 411	3
History 201 or 202	3	Political Science 450	1
Special Education 370	3	Social Work 303	3
Special Education 458	3	Special Education 454	3
		Special Education 459	3
	18		
			19

SENIOR YEAR

Education 401	3	Education 402	8
Psychology 205	3	Educational Psychology 304 ...	3
Psychology 447	3	Special Education 446	3
Special Education 450	2		
Special Education 470	3		14
	14		

Total hours for degree, 133.

¹To be selected from English 203, 204, 205, 206, or 207.

SPECIAL EDUCATION DEPARTMENT

PREPROFESSIONAL SPEECH PATHOLOGY AND UPPER ELEMENTARY EDUCATION (31E)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS	SECOND SEMESTER	SEM. HRS.
Art 204	3	Biology 102-102L	3
Biology 101-101L	3	Education 102	3
English 101	3	English 102	3
Health 102	3	History 201	3
Social Studies 101	3	Mathematics 115	3
Physical Education 1	1	Social Studies 102	3
Orientation	1	Physical education	1
	17		19

SOPHOMORE YEAR

Educational Psychology 201 ...	3	Education 308	3
English ¹	3	English ¹	3
Mathematics 116	3	Educational Psychology 303 ...	3
Geography 202	3	Health 316	2
Special Education 370	3	History 202	3
Physical Education 315	2	Special Education 372	3
Physical education	1	Physical education	1
	18		18

JUNIOR YEAR

Library 316	3	Education 309B-309L ²	4
Mathematics 220	3	Education 310B-310L ²	4
Political Science 450	1	Education 409B-409L ²	6
Special Education 371	3	Special Education 454	3
Special Education 446	3	Special Education 459	3
Special Education 458	3		
Physics 111	3		20
	19		

SENIOR YEAR

Educational Psychology 442 ...	3	Education 404	12
Music 30B	3	Education 421	3
Chemistry 111	3		
Psychology 447	3		15
Social Studies 303	3		
Special Education 450	2		
Special Education 470	3		
	20		

Total hours for degree, 146.

¹To be selected from English 203, 204, 205, 206, or 207.

²If the methods block (309, 310, 409) is taken during a summer session, a 3-hour education elective shall be added to the program.

HEALTH, PHYSICAL EDUCATION AND
RECREATION DEPARTMENTRECREATION¹ (398)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Recreation 101	3	Recreation 208	3
Physical Education 30A	2	Physical Education 30B	2
English 101	3	English 102	3
Health 102	3	Physical science	3
Physical science	3	Social Studies 101	3
Orientation	1	Speech 101	3
	15		17

SOPHOMORE YEAR

Dance 53	1	Dance 263	1
Physical Education 30C	2	Physical Education 30F	2
English	3	Biology 101-101L or 111	3
History 201 or 202	3	English	3
Mathematics 105	3	Mathematics 106	3
Social Studies 102	3	Social science	3
	15		15

JUNIOR YEAR

Health 408	2	Recreation 402	2
Recreation 403	3	Recreation 446	3
Recreation 421	3	Art 204	3
Physical Education 30G	2	Industrial Education 305-305L ..	3
Biology 102-102L or 112	3	Music 30B	3
Educational Psychology 201	3	Sociology 101	3
	16		17

SUMMER SESSION

Recreation 449 (field experience) 9

SENIOR YEAR

Recreation 447	3	Recreation 448	3
Physical Education 30D	2	Journalism 306	3
Physical Education 475	3	Speech 341	3
Office Administration 317	3	Electives	6
Political Science 450	1		
Speech 231	3		15
	15		

Total hours for degree, 134.

¹Completion of this curriculum will not result in a student's being certified as a teacher in the State of Louisiana.

SECONDARY EDUCATION DEPARTMENT—
SCIENCE EDUCATION

SCIENCE EDUCATION (367)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Biology 102-102L	3
Biology 124	1	Biology 125	1
Geology 103-103L	4	Geology 104-104L	4
Mathematics ¹	3	Mathematics ¹	3
English 101	3	English 102	3
Physical Education 1	1	Education 102	3
Orientation	1	Physical education	1
	16		18

SOPHOMORE YEAR

Chemistry 103-103L	4	Chemistry 104-104A or B	4
Physics	4-5	Physics	4-5
Educational Psychology 201	3	Geography 201	3
Electives ²	5	Electives ²	5
	16-17		16-17

JUNIOR YEAR

Chemistry (above 200 level) ...	4	Biological science	4
Geography 307	3	Physics 309	3
Social Studies 101	3	Social Studies 102	3
Political Science 450	1	Education 401	3
Physical education	1	English	3
Electives ²	4		
	16		16

SENIOR YEAR

Health 102	3	Education 402	8
History 201 or 202	3	Education 402B	4
English	3	Educational Psychology 304	3
Physical education	1		
Electives ²	4		
	14		15

Total hours for degree, 127.

¹Mathematics 105, 106, 113, 114, 115, 116 may not be used. Students planning to take Physics 251, 252 must take Mathematics 110.

²Electives must be chosen so as to complete an area of concentration in biology (18 hours), or chemistry (14 hours), or geology (15 hours), or physics (15 hours). When a student chooses his area of concentration, he should consult with the appropriate department head.

SECONDARY EDUCATION DEPARTMENT—
SOCIAL SCIENCES DEPARTMENT

SOCIAL SCIENCES EDUCATION (371)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Social Studies 101	3	Social Studies 102	3
English 101	3	Education 102	3
Health 102	3	English 102	3
Mathematics	3	Mathematics	3
Biology 101-101L or 111	3	Biology 102-102L or 112	3
Orientation	1	Physical Education 1	1
	16		16

SOPHOMORE YEAR

History 101	3	History 102	3
Political Science 201	3	Political Science 202	3
English	3	Educational Psychology 201	3
Physical science	3	English	3
Elective ¹	3	Physical science	3
Physical education	1	Physical education	1
	16		16

JUNIOR YEAR

Economics 201	3	Economics 202	3
History 201	3	Geography 305	3
Sociology 101	3	History 202	3
Social Studies 303	3	Political Science 450	1
Electives ¹	6	Sociology	3
Physical education	1	Electives ¹	6
	19		19

SENIOR YEAR

Geography 306	3	Education 402B	4
Education 401	3	Education 402	8
Social science elective	3	Educational Psychology 304	3
Electives ¹	9		
	18		15

Total hours for degree, 135.

¹Electives must be chosen so as to complete a certifiable minor as defined by the department concerned.

SECONDARY EDUCATION DEPARTMENT—
LANGUAGES DEPARTMENT

SPANISH EDUCATION (374)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Spanish 101	5	Spanish 102	5
Health 102	3	English 102	3
English 101	3	Biology 102-102L or 112	3
Biology 101-101L or 111	3	Social Studies 102	3
Social Studies 101	3	Education 102	3
Physical Education 1	1	Physical education	1
Orientation	1		
	19		18

SOPHOMORE YEAR

Spanish 201	3	Spanish 202	3
English	3	Speech 101	3
History 201 or 202	3	English	3
Physical science	3	Physical science	3
Electives ¹	3	Electives ¹	3
Physical education	1	Physical education	1
	16		16

JUNIOR YEAR

Spanish 306	3	Spanish 307	3
Spanish 310	3	Spanish 311 or 312	3
Educational Psychology 201	3	Mathematics	3
History 331	3	Education 401	3
Mathematics	3	History 332	3
Electives ¹	3	Political Science 450	1
	18		16

SENIOR YEAR

Spanish 499	2	Education 402	8
Spanish 308	3	Education 402B	4
Spanish (400 level)	3	Educational Psychology 304	3
Electives ¹	9		
	17		15

Total hours for degree, 135.

¹Electives must be chosen so as to complete a minor as defined by the department concerned.

SECONDARY EDUCATION DEPARTMENT—
SPEECH DEPARTMENT

SPEECH EDUCATION (376)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Speech 101	3	Speech 102	3
English 101	3	English 102	3
Health 102	3	Education 102	3
Biology 101-101L or 111	3	Biology 102-102L or 112	3
Social Studies 101	3	Social Studies 102	3
Physical Education 1	1	Speech Activity 11	1
Orientation	1	Physical education	1
	17		17

SOPHOMORE YEAR

Speech 205	3	Speech 201	3
Speech 231	3	Speech 232	3
English 203	3	English 204	3
Mathematics	3	Mathematics	3
Physical science	3	Physical science	3
Speech Activity 12	1	Speech Activity 31	1
Physical education	1	Physical education	1
	17		17

JUNIOR YEAR

Speech 321	3	Speech 350 or 351	3
Speech 353	3	Speech 432	3
History 201 or 202	3	Social science	3
Educational Psychology 201	3	Electives ¹	9
Electives ¹	3		
Speech Activity 32	1		18
Political Science 450	1		
	17		

SENIOR YEAR

Education 401	3	Education 402	8
Electives ¹	12	Educational Psychology 304	3
	15	Education 402B	4
			15

Total hours for degree, 133.

¹Electives must be chosen so as to complete a minor as defined by the department concerned.

TEACHER AIDES (378)

Associate Degree

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Education 103	3	Education 102	3
Education 108	3	Educational Psychology 201	3
English 100 or 101	3	English 101 or 102	3
Health 102	3	Home Economics 112	1
Office Administration 101	2	Social Studies 101	3
Physical Education 16	1	Speech	3
		Physical Education 1	1
	15		17

SOPHOMORE YEAR

Educational Psychology 303		Education 220	6
or 304	3	Education 305 or	
Home Economics 105 or		Art 204	3
Music 30B	3	Library 201	3
Library 102	3	Mathematics 106 or 116	3
Mathematics 105 or 115	3	Social Studies 102	3
Office Administration 210	2		
Physical Education 215 or 315 ..	2		18
	16		

Total hours for degree, 66.

COLLEGE OF EDUCATION

T. P. SOUTHERLAND, *Dean*

DEPARTMENT OF EDUCATIONAL MEDIA

THOMAS L. HENNIGAN, *Associate Professor and Acting Department Head*

Assistant Professors: F. Christensen, Nickey; *Instructor:* Whitehead

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY AND GUIDANCE

RAY A. McCOY, *Professor and Department Head*

Associate Professors: Goodwin, James; *Assistant Professors:* Billingsley, Cox, Guice, Houchins, Shafer; *Instructors:* Batiste, P. Dennis

DEPARTMENT OF ELEMENTARY EDUCATION

WILLIAM A. DAVIS, *Associate Professor and Department Head*

Professors: Bailey, R. Dennis; *Associate Professors:* Barron, Wynn; *Assistant Professors:* Dubois, Lumpkins, Payne, Posey, Tatum; *Instructor:* Locke

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION AND RECREATION

ROBERT A. ALOST, *Professor and Department Head*

Professors: Davion, Evans, Marx, Nelken; *Associate Professors:* Bonnette, Brown, Coker, DiNucci, Patton, Scogin; *Assistant Professors:* Christmas, M. Farris, Gentry, Hill, Hillard, Howell, Lewis, Richie, Simmons; *Instructors:* King, Towns, Vega; *Teaching Assistant:* Adkins

DEPARTMENT OF HOME ECONOMICS

MARIE DUNN, *Professor and Department Head*

Associate Professors: Durr, V. Johnson, Roberson; *Assistant Professors:* Ackel, Rucker, M. Southerland; *Instructor:* S. Thomas

DEPARTMENT OF SECONDARY EDUCATION

BARNEY L. KYZAR, *Professor and Department Head*

Professors: Allbritten, Clinton, McElwee, Philp, T. Southerland; *Associate Professors:* Bearden, Buhler, McCollum; *Assistant Professors:* Burge, Gilbert, Kinard, Reed; *Instructor:* Sanders

DEPARTMENT OF SPECIAL EDUCATION

MICHAEL J. COUSINS, *Professor and Department Head*

Professors: Frederick, E. Matis; *Associate Professors:* Galloway, Hall; *Assistant Professors:* Burlison, Burrough, Christman, Cloutier, Dans, Eubanks, R. Farris, Gaiennie, McDonald, M. Matis, Morrison, Mottet, Noles, Penny, Phillips, Preston, Prosser, Randles, Tretiak, Woodard; *Instructors:* Field, Fusilier, Olive, Rudnick

ELEMENTARY AND SECONDARY EDUCATION

Undergraduate Requirements

Professional requirements for—

Secondary majors: 102, 401, 402, 402B; Educational Psychology 201, 304—24 semester hours.

Elementary majors: 102, 308, 309, 310, 404, 409, 421; Educational Psychology 201, 303—41 semester hours.

Librarianship-Secondary Teachers (Education major): Library 102, 201, 206, 308, 309, 316, 317, 318, 407, 410—35 semester hours.

Librarianship-Elementary Teachers (Education major): Library 102, 201, 206, 308, 316, 317, 318, 407, 410B—28 semester hours.

Librarianship (Liberal Arts major): Library 102, 201, 206, 308, 316, 317 or 319, 318, 407, 410; library elective, 3 hours—35 semester hours.

Librarianship minor (Education): Library 102, 206, 308, 316, 317, 318, 407, 410B—25 semester hours.

Librarianship minor (Liberal Arts): Library 102, 206, 308, 316 or 317, 318, 319, 407, 410B—25 semester hours.

Kindergarten and Primary Teaching: Education 102, 305, 308, 309A, 310A, 311, 404A, 404B, 409A, 421; Educational Psychology 201, 303—47 semester hours.

Any student who qualifies for teaching in secondary schools may obtain certification in the elementary field by meeting the following requirements: Library 316, Education 309, 310, 404A or 404, 409; Educational Psychology 303; Social Studies 303; geography, 3 hours (for certification in the 2 programs a total of 18 hours in social science is required); speech, 3 hours; art, music and/or industrial arts, 6 hours; health and physical education, 4 hours. The courses in art, music, and health and physical education must be appropriate for training in elementary teaching.

EDUCATIONAL MEDIA, EDUCATIONAL PSYCHOLOGY AND GUIDANCE, ELEMENTARY EDUCATION, AND SECONDARY EDUCATION

Graduate Requirements

All graduate students majoring in Education must earn at least 12 semester hours of graduate credit in a field or fields other than education. For secondary teachers the 12 hours must be in a single field; for elementary teachers this credit may be distributed among several fields.

For the Master of Education Degree

a. Educational Media

Undergraduate preparation for a major: regular certification to teach.

Special requirements: Education 501, 570, 572, 575; Educational Psychology 541; 2 of the following: Education 515, 516, 578, Library 470.

b. Elementary School Administration

Undergraduate preparation for a major: 18 semester hours of education, including educational psychology and student teaching.

Special requirements for a major: 501, 510, 511, 516, 530, 535, and a 3-hour education elective to be selected with the consent of the adviser. (Election of thesis will satisfy the research requirements and will substitute for 516, 530, and the education elective.)

Undergraduate preparation for a minor: 18 semester hours of education, including educational psychology and student teaching.

Special requirements for a minor: 510, 511, and 535.

c. Elementary Teaching

Undergraduate preparation for a major: certification to teach in the elementary school, or 24 semester hours of education, including educational psychology, child psychology, and student teaching at the elementary level.

Special requirements for a major: 501; 4 of the following:¹ 504, 505, 507, 509, 530, 531, 532, 533; Educational Psychology 541 or 546; certification to teach in elementary school. Students who write theses will be required to take 2 methods courses.

Undergraduate preparation for a minor: 18 semester hours of education, including educational psychology and student teaching.

Special requirements for a minor: 501; 2 of the following: 505, 531, 532, 533; Educational Psychology 541 or 546.

d. Elementary School Counseling and Guidance

Undergraduate preparation for a major: 18 semester hours of education, including educational psychology and student teaching.

Special requirements for a major: 501, and 18 semester hours of graduate credit in guidance.

Minor requirements for elementary guidance majors: Psychology 447; Educational Psychology 440, 546, and 3 additional hours selected from educational psychology or psychology.

e. Secondary School Counseling and Guidance

Undergraduate preparation for a major: 18 semester hours of education, including educational psychology and student teaching.

Special requirements for a major: 501, and 18 semester hours of graduate credit in guidance.

Minor requirements for secondary guidance majors: Psychology 447; Educational Psychology 440, 546, and 3 additional hours selected from educational psychology or psychology.

f. Reading Specialist, Elementary and Secondary

Undergraduate preparation for a major: 18 semester hours of education, including educational psychology and student teaching.

Special requirements for a major: 501, 505 or 506, 507, 607.

Minor requirements for reading specialist majors: Educational Psychology 541, 546; Psychology 441, 447; 3 years of successful teaching experience prior to receiving the degree.

g. Secondary School Administration

Undergraduate preparation for a major: 18 semester hours of education, including educational psychology and student teaching.

Special requirements for a major: 501, 510, 511, 514, 516, 520, and 1 3-hour education elective to be selected with the consent of the adviser. (Election of a thesis will satisfy the research requirements and will substitute for 516, 520, and the education elective.)

Undergraduate preparation for a minor: 18 semester hours of education, including educational psychology and student teaching.

Special requirements for a minor: 510, 511, and 514.

h. Secondary Teaching

Undergraduate preparation for a major: 18 semester hours of education, including educational psychology and student teaching.

Special requirements: 15 semester hours of graduate credit in 1 area of certification to teach in the secondary school; Education 501, 520; Educational Psychology 546; 6 semester hours selected from Education 506, 515, 521-527 (only 1 can apply to degree), and Educational Psychology 541;

¹Two courses must be selected from 530, 531, 532, 533.

3 semester-hour elective in area of concentration or education. Total—33 semester hours.

Requirements for secondary teaching minor (M.S. in Ed. or M.A. in Ed.): 493,¹ 516, 520, and Educational Psychology 546.

i. Student Personnel Services

Undergraduate preparation for a major: 18 semester hours of education or a major in 1 of the behavioral sciences.

Special requirements for a major: 501, 617, and 18 semester hours of graduate credit in guidance, including 557.

For the Specialist in Education Degree

The Specialist in Education degree is offered in the following fields: elementary teaching, elementary school principalship, reading, secondary teaching, secondary school principalship, elementary school counseling and guidance, and secondary school counseling and guidance. Degree candidates must complete a unified program of at least 60 semester hours of graduate credit above the bachelor's degree, including a minimum of 30 semester hours in addition to the master's degree requirements.

a. Elementary Teaching

Undergraduate preparation for a major: certification to teach in the elementary school or 24 semester hours of education, including educational psychology, child psychology, student teaching at the elementary level and 3 years of successful full-time teaching experience.

Special requirements for a major: a minimum of 63 semester hours of graduate credit above the bachelor's degree, including 501, 505, 509, 530, 531, 532, 533, 598; Educational Psychology 541 or 546; 2 courses selected from the following: 504, 507, 511 or 515, 516, 518, 519, 634, Educational Psychology 442, 541, 546; 24 semester hours of graduate credit in courses outside the field of professional education.

b. Elementary School Principalship

Undergraduate preparation for a major: certification to teach with courses in the following areas: educational psychology, child psychology, and student teaching; 3 years of successful full-time teaching experience.

Special requirements for a major: 501, 510, 511, 516, 530, 535, 598, and Educational Psychology 546; 2 courses selected from the following: 505, 509, 531, 532, 533; 15 hours selected from the following: 610, 611, 612, 613, 614, 615, 618, Educational Psychology 442, 541; and 12 semester hours of graduate credit in courses outside the field of education.

c. Reading

Undergraduate preparation for a major: certification to teach in the elementary school or 24 semester hours of education, including educational psychology, child psychology, and student teaching at the elementary level; or certification to teach in the secondary school or 18 semester hours of education, including educational psychology, adolescent psychology, and student teaching at the secondary level; and 3 years of successful full-time teaching experience.

Special requirements for a major: a minimum of 63 semester hours of graduate credit above the bachelor's degree, including 501, 505, 506, 507, 598, 607, 608 or 609; Educational Psychology 541, 546; English 400 or 411; Psychology 441, 447, 572 or 573, 648.

d. Secondary Teaching

Special requirements: a minimum of 27 semester hours of graduate credit in 1 area of certification to teach in the secondary school; 501,

¹One of the following may be substituted for 493 with approval of the Head of the Department of Secondary Education: 521, 522, 523, 524, 525, 526, 527.

520, 628, 604, and Educational Psychology 546; 6 semester hours selected from the following: 506, 515, 521-527, and Educational Psychology 541; 6 semester hours selected from the following but excluding the above courses selected: 515, 516, 518, 519, 521-527, 602, and Educational Psychology 442; 3 semester hours of electives in the area of concentration or education; and 598 (thesis, 6 hours). Total minimum hours—63 (including master's degree credit).

e. Secondary School Principalship

A minimum of 63 semester hours including master's degree credit.

Special requirements for a major: 501, 510, 511, 514, 516, 520 or 620, 598; Educational Psychology 541 or 546; 18 hours selected from the following: 610, 611, 612, 613, 614, 615, 618; 6 hours selected from the following: 506, 521, 522, 523, 524, 525, 526, 527, Educational Psychology 442.

f. Elementary School Counseling and Guidance

Special requirements for a major: 501, 530, 550, 551, 552, 553, 555, 560, 598; Educational Psychology 440, 546; Psychology 447; 2 courses selected from 554, 556, 558, 559; 2 courses in psychology or educational psychology, and 9 hours of electives approved by student's committee.

g. Secondary School Counseling and Guidance

Special requirements for a major: 501, 520 or 620, 550, 551, 552, 553, 554, 555, 598; Educational Psychology 440, 546; Psychology 447; 2 courses selected from 556, 558, 559, 560, 651; 2 courses in psychology or educational psychology; 9 hours of electives approved by the student's committee.

THE DOCTORAL PROGRAM

Northwestern State University offers the Doctor of Education and Doctor of Philosophy in Education degrees. The Doctor of Education is offered in the following fields: elementary education, secondary education, and health and physical education. The Doctor of Philosophy in Education degree is offered in health and physical education.

Special requirements for a student seeking admission to the program in elementary education include certification in elementary education; special requirements for a student seeking admission to the program in secondary education include certification in secondary education.

Refer to the **Graduate School Bulletin** for all further requirements.

Courses of Instruction

ELEMENTARY AND SECONDARY EDUCATION

For Undergraduates Only

102. INTRODUCTION TO EDUCATION. 3 hours. Organization and administration of the school; principles of learning; materials of instruction; opportunities, requirements, and ethics in the teaching profession.

103. SEMINAR FOR TEACHER AIDES. 3 hours. A problem-oriented course designed for those students employed as teacher aides. Emphasis on problems identified by teacher aides and their supervisors; group discussion, individual conferences, and laboratory experiences.

108. PREPARATION OF EDUCATIONAL MEDIA. 3 hours. Basic practices in preparing print and non-print materials for the teaching-learning process. Laboratory use of machines and equipment for preparation of projected and non-projected instructional materials. For Teacher Aides and Associate Degree candidates only.

220. PRACTICUM FOR TEACHER AIDES. 6 hours. Practical experience as an aide in the elementary or secondary school 3 hours daily. Participation in extra-class duties and attending conferences arranged by cooperating teachers and college supervisors. Prerequisites: 102, 103; Educational Psychology 201, 303 or 304.

305. THE CHILD'S ENVIRONMENT. 3 hours. Literature, art, music, and play of the pre-school child; selection and design of equipment and play materials; housing and furnishings of nursery school and kindergarten. (Same as Home Economics 301A). Open to non-majors.

308. METHODS IN EDUCATIONAL MEDIA. 3 hours. Theory and practice in selection and utilization of instructional materials, pictorial and graphic media, recordings, motion pictures, television; laboratory experience in display and presentation techniques including equipment operation. (Same as Library 308.)

309A.¹ TEACHING SOCIAL STUDIES AND SCIENCE IN GRADES 1-3. 3 hours. Content, problems in teaching, and techniques of teaching social studies and science in grades 1, 2, and 3; organization of materials; procedures; teaching aids and literature for teachers of these subjects. Prerequisites: admission to candidacy in teacher education; registration in 309L.

309B.¹ TEACHING SOCIAL STUDIES AND SCIENCE IN GRADES 4-8. 3 hours. Content, problems in teaching, and techniques of teaching social studies and science in grades 4, 5, 6, 7, and 8; organization of materials; procedures; teaching aids and literature for teachers of these subjects. Prerequisites: admission to candidacy in teacher education; registration in 309L.

309L. TEACHING SOCIAL STUDIES AND SCIENCE LABORATORY. 1 hour. Observation and participation in the elementary school; performing experiments, and conducting demonstrations. Laboratory 2 hours. Prerequisite: registration in 309A or 309B.

310A.¹ TEACHING MATHEMATICS IN GRADES 1-3. 3 hours. Content, problems in teaching, and techniques of teaching mathematics in grades 1, 2, and 3; organization of materials; procedures; teaching aids and literature for teachers of primary mathematics. Prerequisites: registration in 310L; Mathematics 115, 116; admission to candidacy in teacher education.

310B.¹ TEACHING MATHEMATICS IN GRADES 4-8. 3 hours. Content, problems in teaching, and techniques of teaching mathematics in grades 4, 5, 6, 7, and 8; organization of materials; procedures; teaching aids and literature for teachers of primary mathematics. Prerequisites: registration in 310L; Mathematics 115, 116; admission to candidacy in teacher education.

310L. TEACHING MATHEMATICS LABORATORY. 1 hour. Observation and participation in the elementary school. Laboratory 2 hours. Prerequisite: registration in 310A or 310B.

311. METHODS OF PRE-SCHOOL TEACHING. 3 hours. Content of problems involved in teaching at the pre-school level, including techniques in teaching procedures, teaching aids, literature for teachers of these children, guidance at this level, and parent education. Observation and participation experiences at the nursery and kindergarten levels. Prerequisites: admission to candidacy for the degree in teacher education, 305 and Educational Psychology 201 and 303, or consent of department head.

401. SPECIAL METHODS IN HIGH SCHOOL SUBJECTS. 3 hours. Materials, methods, and observation of high school classes. Fall semester only, except for business, home economics, and music students. Prerequisites: 102; Educational Psychology 201, and admission to candidacy in teacher education.

401A. MUSIC EDUCATION, HIGH SCHOOL VOCAL. 3 hours. Materials, methods, and courses, and their integration with other subjects in the curriculum; observation of high school classes. Open to voice majors who have

¹Education 309, 310, and 409 should all be taken prior to student teaching, and students enrolled in these courses must keep from 3:00 to 4:00 on Tuesday free. A student may not receive credit in both 309A and 309B, nor in both 310A and 310B.

8 semester hours in voice. Prerequisite: admission to candidacy in teacher education.

401B. MUSIC EDUCATION, INSTRUMENTAL. 3 hours. Problems of instrumental instruction on the elementary and high school levels; organization and development of bands and orchestras. Prerequisite: admission to candidacy in teacher education.

401C. MUSIC EDUCATION, PIANO PEDAGOGY. 3 hours. Principles of piano teaching; psychology, teaching materials, symposium, discussion of methods. Open to piano majors who have 8 semester hours in piano. Prerequisite: admission to candidacy in teacher education.

401D. MUSIC EDUCATION, ELEMENTARY VOCAL. 3 hours. Formulation of a basic philosophy of music education and a consideration of vocal methods and materials at the elementary level; their integration with other fields of music and the general curriculum; observation of and participation in music experiences of children in the elementary school. Open to voice majors who have 8 semester hours in voice. Prerequisite: admission to candidacy in teacher education.

401E.¹ MUSIC EDUCATION, MATERIALS FOR THE ADVANCED PIANO STUDENT. 3 hours. Listening to, performing, and analyzing advanced materials; emphasis on pedagogical problems in music. Prerequisite: 401C.

401K. MATERIALS AND METHODS IN BUSINESS AND DISTRIBUTIVE EDUCATION. 3 hours. Instructional materials and techniques used in high school and post high school business and distributive education classes. Prerequisites: 102, Educational Psychology 201, and admission to candidacy in teacher education.

402.² STUDENT TEACHING IN SECONDARY SCHOOLS. 8 hours. Teaching and observing in the high school 3 hours daily; participating in extra-class duties and attending conferences arranged by cooperating teachers and college supervisors. Prerequisites: 102, 401; Educational Psychology 201; admission to candidacy in teacher education; application for assignment in student teaching.

402B.² STUDENT TEACHING IN SECONDARY SCHOOLS. 4 hours. Teaching in the high school 2 hours daily, supplemented by planning in the student's major field; participating in extra-class duties, and attending conferences arranged by cooperating teachers and college supervisors. Prerequisites: 102, 401; Educational Psychology 201; admission to candidacy in teacher education; application for assignment in student teaching.

402C.² SUPPLEMENTARY STUDENT TEACHING IN THE ELEMENTARY SCHOOL. 2 hours. Teaching in the elementary school 1 hour daily, and attending conferences arranged by cooperating teachers and college supervisors. Prerequisites: 102; Educational Psychology 201.

402I.² STUDENT TEACHING IN HIGH SCHOOL INSTRUMENTAL MUSIC. 1-4 hours. Teaching instrumental music in the high school; experience in directing band and orchestra. Prerequisites: 102, 401B; Educational Psychology 201, 304; admission to candidacy in teacher education; application for assignment in student teaching.

402P.² STUDENT TEACHING IN PIANO ON THE HIGH SCHOOL LEVEL. 1-3 hours. Prerequisites: 102, 401C; Educational Psychology 201, 304; admission to candidacy in teacher education; application for assignment in student teaching.

¹Not required of students with a double major in piano and vocal music.

²Only students registered in the College of Education may enroll in this course.

402V.¹ STUDENT TEACHING IN HIGH SCHOOL VOCAL MUSIC. 1-3 hours. Prerequisites: 102, 401A; Educational Psychology 201, 304; admission to candidacy in teacher education; application for assignment in student teaching.

404.¹ STUDENT TEACHING IN THE ELEMENTARY SCHOOL. 12 hours. Philosophy, skills, techniques, and controls essential to successful classroom procedures in the elementary school through observation of and participation in classroom activities. Minimum of 5 hours daily. Prerequisites: 102, 305, 309, 310, 409; Educational Psychology 201, 303; Library 316; admission to candidacy in teacher education, and application for assignment in student teaching.

404A.¹ STUDENT TEACHING IN THE ELEMENTARY SCHOOL. 6 hours. Philosophy, skills, techniques, and controls essential to successful classroom procedure in the elementary school through observation of and participation in classroom activities. Minimum of 2 hours daily. Prerequisites: 102, 309, 310, 409; Educational Psychology 201, 303; Library 316; admission to candidacy in teacher education; application for assignment in student teaching.

404B.¹ STUDENT TEACHING IN THE PRE-SCHOOL. 6 hours. Teaching and observation in the nursery school and kindergarten. Philosophy, skills, techniques and controls essential to successful classroom procedures in the pre-school through observation and participation in classroom activities. Minimum of 3 hours daily. Prerequisite: eligibility for student teaching.

404C.¹ STUDENT TEACHING IN HEALTH AND PHYSICAL EDUCATION FOR THE ELEMENTARY GRADES. 6 hours. Philosophy, skills, techniques, and controls essential to successful teaching of health and physical education in the elementary grades through observation of and participation in class activities. Minimum of 2 hours daily. Prerequisites: 102, 309, 310, 409; Educational Psychology 201, 303; Library 316; admission to candidacy in teacher education; application for assignment in student teaching.

404L.¹ STUDENT TEACHING IN INSTRUMENTAL MUSIC FOR THE ELEMENTARY GRADES. 1-4 hours. Teaching instrumental music in the elementary grades. Prerequisites: 102, 401B; Educational Psychology 201; admission to candidacy in teacher education; application for assignment in student teaching.

404P.¹ STUDENT TEACHING IN PIANO ON THE ELEMENTARY LEVEL. 1-3 hours. Prerequisites: 102, 401C; Educational Psychology 201, 304; admission to candidacy in teacher education; application for assignment in student teaching.

404X.¹ STUDENT TEACHING IN ELEMENTARY VOCAL MUSIC. 1-3 hours. Teaching vocal music in the elementary school, grades 1 through 4. Prerequisites: 102, 401D; Educational Psychology 201, 304; admission to candidacy in teacher education; application for assignment in student teaching.

404Y.¹ STUDENT TEACHING IN ELEMENTARY VOCAL MUSIC. 1-3 hours. Teaching vocal music in the elementary school, grades 4 through 8. Prerequisites: 102, 401D; Educational Psychology 201, 304; admission to candidacy in teacher education; application for assignment in student teaching.

404SC.¹ STUDENT PRACTICE IN SPEECH CORRECTION. 4 hours. Philosophy, skills, techniques, and procedures essential to successful conduct of a speech correction program in a school through observation of and participation in such a program. Minimum of 15 hours per week, plus preparation

¹Only students registered in the College of Education may enroll in this course.

of lesson plans and materials, and attending conferences arranged by cooperating teachers and University supervisors. Prerequisites: 102, 309, 310, 409; Educational Psychology 201, 303; Special Education 370, 371, 450, 459; admission to candidacy in teacher education; application for assignment in student teaching. (This course is designed for the completion of certification as a speech correctionist. The speech correction curricula have been deleted. This course will be phased out by 1971-1972.)

409A.¹ TEACHING READING AND THE OTHER LANGUAGE ARTS IN THE ELEMENTARY YEARS. 5 hours. Development program of language arts in the primary grades; study of the content, materials, methods, and techniques used in teaching reading, oral and written language, spelling, handwriting, and listening. Prerequisites: admission to candidacy in teacher education; registration in 409L.

409B.¹ TEACHING READING AND THE OTHER LANGUAGE ARTS IN THE UPPER ELEMENTARY YEARS. 5 hours. Developmental program of language arts in the upper elementary grades; content, materials, methods, and techniques used in teaching reading, oral and written language, spelling, handwriting, and listening. Prerequisites: admission to candidacy in teacher education; registration in 409L.

409L. TEACHING READING AND OTHER LANGUAGE ARTS LABORATORY. 1 hour. Demonstrations and directed observations in the elementary school. Laboratory 2 hours. Prerequisite: registration in 409A or 409B.

421. SEMINAR IN ELEMENTARY TEACHING. 3 hours. Group discussions, individual conferences, reading and individual research on problems relating to teaching in the elementary school. Emphasis on problems identified by students or cooperating teachers during student teaching. Corequisite: 404 or 404A. Prerequisite: admission to candidacy in teacher education.

431. SEMINAR IN SECONDARY TEACHING. 3 hours. Group discussion, individual conferences, reading, and individual research on problems relating to teaching in the secondary school. Emphasis on problems identified by students or cooperating teachers during student teaching. Corequisite: 402 or 402B. Prerequisite: admission to candidacy in teacher education.

438. READING INSTRUCTION IN THE CONTENT AREAS. 3 hours. Reading skills necessary for successful achievement in the secondary school content areas and methods of incorporating instruction in these skills into content teaching; emphasis on vocabulary, comprehension, and study skills.

For Undergraduates and Graduates

415.² THE TRAINING AND UTILIZATION OF TEACHER-AIDES IN THE PUBLIC SCHOOLS. 1-3 hours. Role of teacher-aides; their training, specific abilities needed, and their responsibilities to pupils, teachers, parents, school, and community.

417. ADVANCED PRE-PRIMARY METHODS. (or Improving Instruction in Pre-Primary Programs). 3 hours. Social, emotional and intellectual needs of the pre-primary child; guidance, methods and techniques of working with pre-school children, with particular attention to social, emotional and intellectual needs, including developing and testing for school readiness; schedule, and program planning; examination of research reports related to this area. (Same as Home Economics 417). Prerequisite: 6 hours in child development

¹Education 309, 310, and 409 should all be taken prior to student teaching, and students enrolled in these courses must keep from 3:00 to 4:00 on Tuesday free. A student may not receive credit in both 409A and 409B.

²May not be used to satisfy graduate degree requirements.

and/or child psychology; admission to candidacy in teacher education. Lecture and laboratory.

418. ADMINISTRATION AND ORGANIZATION OF PRE-PRIMARY PROGRAMS. 3 hours. Philosophy and objectives of pre-primary programs; methods of organizing and operating kindergarten and nursery schools, day care centers, and play groups for children below 6 years of age; housing; materials and equipment; staff; records. (Same as Home Economics 418.)

420.¹ REFRESHER IN SPECIAL FIELDS. 1-3 hours. Designed to help teachers in learning experiences for students at the junior or senior high school level. Examination of material and consideration of methods of teaching in the light of the student's needs.

424.¹ PROBLEMS IN CURRICULUM AND INSTRUCTION. 1-6 hours. Problems of curriculum and instruction focusing on purposes and content. Credit in institutes, workshops, short courses or in-service education.

450.¹ SPECIAL PROBLEMS IN LANGUAGE ARTS INSTRUCTION IN THE ELEMENTARY SCHOOL. 1-3 hours. Special problems uniquely related to current methods and materials of instruction in language arts grades 1-8. (Formerly 605.)

451.¹ SPECIAL PROBLEMS IN LANGUAGE ARTS INSTRUCTION IN THE HIGH SCHOOL. 1-3 hours. Special problems uniquely related to current methods and materials of instruction in language arts grades 9-12. (Formerly 606.)

452.¹ SPECIAL PROBLEMS IN MATHEMATICS INSTRUCTION IN THE ELEMENTARY SCHOOL. 1-3 hours. Special problems uniquely related to current methods and materials of instruction in mathematics grades 1-8. (Formerly 632.)

453.¹ SPECIAL PROBLEMS IN SCIENCE INSTRUCTION IN THE ELEMENTARY SCHOOL. 1-3 hours. Special problems uniquely related to current methods and materials of instruction of science in grades 1-8. (Formerly 633.)

454.¹ SPECIAL PROBLEMS IN SOCIAL STUDIES INSTRUCTION IN THE ELEMENTARY SCHOOL. 1-3 hours. Special problems uniquely related to current methods and materials of instruction in social studies grades 1-8.

493. GENERAL METHODS OF TEACHING. 3 hours. Planning of instruction, classroom management, discipline, and evaluation; observation of classroom procedures.

494. SEMINAR IN CREATIVITY. 3 hours. Theories in creativity, its measurement and its implications for education in the elementary and secondary schools. (Same as Art 452.)

498.¹ WORKSHOP IN GUIDANCE. 1-3 hours. Selected aspects of guidance programs including principles and philosophy, vocational guidance, measurement, program organization, and counseling.

For Graduates Only

***501. EDUCATIONAL RESEARCH.** 3 hours. The nature of scientific thinking, research design, and research planning. Students prepare research proposals for discussion and criticism in class. A formal written report will be submitted.

¹May not be used to satisfy graduate degree requirements.

504. CHILDREN'S LITERATURE. 3 hours. Reading and discussion of recent children's books with emphasis upon reading interests, development of criteria for evaluating books, and ways of using them in the curriculum. Designed to help teachers integrate a knowledge of children, books, and the learning process. Prerequisite: consent of department head.

505. READING INSTRUCTION IN THE ELEMENTARY SCHOOL. 3 hours. Current methods and materials in the teaching of reading from the reading readiness stage through reading in the content areas in the upper elementary grades. Prerequisite: teaching experience, or an undergraduate methods course in reading.

506. READING INSTRUCTION IN THE SECONDARY SCHOOL. 3 hours. The secondary school reading situation; the nature of the reading process; identification of reading skills; causes of reading difficulties; evaluation of reading achievement; materials of instruction; reading program for secondary schools. Prerequisite: 438.

507. DIAGNOSIS AND CORRECTION OF READING DISABILITIES. 3 hours. Causation in reading disabilities; laboratory experience with diagnostic instruments and procedures, including standardized and informal tests; materials and procedures for corrective instruction in reading. Prerequisite: 505 or 506 or consent of instructor.

509. IMPROVEMENT OF INSTRUCTION IN THE LANGUAGE ARTS. 3 hours. Current practices and trends in teaching the language arts in the elementary school. Prerequisite: teaching experience or an undergraduate course in teaching the language arts.

510. PUBLIC SCHOOL ORGANIZATION AND ADMINISTRATION. 3 hours. National, state, and local administration, organization of public education; instructional leadership; administration of special services; pupil personnel administration; financial and business administration; school plant administration; and administration of school-community relations.

511. SUPERVISION OF INSTRUCTION. 3 hours. Science and technique of supervision; observing actual teaching; demonstration teaching; evaluating supervision.

512. SUPERVISION OF HOME ECONOMICS. 3 hours. Objectives, techniques, and evaluation of supervision of instruction in home economics. A course for experienced teachers who are interested in supervising teachers, or in working with home economics teachers in service.

514. THE SECONDARY SCHOOL PRINCIPALSHIP. 3 hours. Duties and responsibilities of the secondary-school principal in the areas of organization, leadership, administration and supervision; principal's professional growth and his relationship to the school, teachers, and patrons. Prerequisites: 510 and 2 years of teaching experience.

515. SUPERVISION OF STUDENT TEACHING. 3 hours. Philosophy, science, and technique of supervising student teachers, observing cooperating teachers; demonstration teaching, evaluating student teaching. Prerequisite: 2 years teaching experience.

516. PRINCIPLES OF CURRICULUM DEVELOPMENT. 3 hours. Principles and practices of curriculum development with opportunities to participate in curriculum construction.

518. HISTORY OF AMERICAN EDUCATION. 3 hours. Growth and development of elementary, secondary, and higher education in the United States from the early 17th century to the present.

519. PROBLEMS IN EDUCATIONAL ADMINISTRATION. 3 hours. In-depth investigation of current issues in school administration.

520. THE SECONDARY SCHOOL. 3 hours. Development, purposes, and organization of the secondary school in the United States; principles relating to the philosophy and practices of secondary education.

521. IMPROVEMENT OF INSTRUCTION IN HIGH SCHOOL ENGLISH. 3 hours. Derivation of appropriate methods and techniques from basic principles of learning; development of skills needed in cooperative planning; choosing and organizing teaching materials; using the environment; guidance; evaluation procedure. Prerequisite: teaching experience, or an undergraduate methods course in the subject.

522. IMPROVEMENT OF INSTRUCTION IN HIGH SCHOOL SOCIAL STUDIES. 3 hours. Derivation of appropriate methods and techniques from basic principles of learning; development of skills needed in cooperative planning; choosing and organizing teaching materials; using the environment; guidance; evaluation procedures. Prerequisite: teaching experience, or an undergraduate methods course in the subject.

523. IMPROVEMENT OF INSTRUCTION IN HIGH SCHOOL MATHEMATICS. 3 hours. Derivation of appropriate methods and techniques from basic principles of learning; development of skills needed in cooperative planning; choosing and organizing teaching materials; using the environment; guidance; evaluation procedures. Prerequisite: teaching experience, or an undergraduate methods course in the subject.

524. IMPROVEMENT OF INSTRUCTION IN HIGH SCHOOL SCIENCE. 3 hours. Derivation of appropriate methods and techniques from basic principles of learning; development of skills needed in cooperative planning; choosing and organizing teaching materials; using the environment; guidance; evaluation procedures. Prerequisite: teaching experience, or an undergraduate methods course in the subject.

525. IMPROVEMENT OF INSTRUCTION IN HIGH SCHOOL HEALTH AND PHYSICAL EDUCATION. 3 hours. Derivation of appropriate methods and techniques from basic principles of learning; development of skills needed in cooperative planning; choosing and organizing teaching materials; using the environment; guidance, evaluation procedures. Prerequisite: teaching experience, or an undergraduate methods course in the subject.

526. TEACHING OF ORAL INTERPRETATION. 3 hours. Aims and methods of teaching oral interpretation in the secondary school; consideration of textbook and materials; coordination of oral interpretation with general speech and English courses; special attention to methods and uses of choric interpretation, and to organization of a participation in contests and festivals. Prerequisite: teaching experience, or an undergraduate methods course in the area of languages or speech.

527. IMPROVEMENT OF INSTRUCTION IN HIGH SCHOOL HOME ECONOMICS. 3 hours. Derivation of appropriate methods and techniques from basic principles of learning; development of skills needed in cooperative planning; choosing and organizing teaching materials; using the environment; guidance; evaluation procedures. Prerequisite: teaching experience, or an undergraduate methods course in the subject.

528. LITERATURE FOR THE ADOLESCENT. 3 hours. Examination, reading, discussion, and evaluation of books and other printed materials designed for junior and senior high school pupils; aids, principles, and criteria for selecting and using books and other materials in the various subject areas;

attention to ways in which books can help meet needs and interest of adolescents.

530. THE ELEMENTARY SCHOOL. 3 hours. Development, purposes, and organization of the elementary school in the United States; principles relating to the philosophies and practices of elementary education.

531. IMPROVEMENT OF INSTRUCTION IN ELEMENTARY SCHOOL SOCIAL STUDIES. 3 hours. Derivation of appropriate methods and techniques from basic principles of learning; development of skills needed in cooperative planning; choosing and organizing teaching materials, using the environment; guidance; evaluation procedures. Prerequisite: teaching experience, or undergraduate methods course in this subject.

532. IMPROVEMENT OF INSTRUCTION IN ELEMENTARY SCHOOL MATHEMATICS. (formerly 424). 3 hours. Derivation of appropriate methods and techniques from basic principles of learning; development of skills needed in cooperative planning; choosing and organizing teaching materials; using the environment; guidance; evaluation procedures. Prerequisite: teaching experience, or undergraduate methods course in this subject.

533. IMPROVEMENT OF INSTRUCTION IN ELEMENTARY SCHOOL SCIENCE. 3 hours. Derivation of appropriate methods and techniques from basic principles of learning; development of skills needed in cooperative planning; choosing and organizing teaching materials; using the environment; guidance; evaluation procedures. Prerequisite: teaching experience, or undergraduate methods course in this subject.

535. ADMINISTRATION OF THE ELEMENTARY SCHOOL. 3 hours. Duties and responsibilities of the elementary school principal in the areas of organization, leadership administration and supervision; principal's professional growth and his relationship to the school, teachers, and patrons. Prerequisites: 510 and 2 years of teaching experience.

547. PRACTICUM IN EARLY CHILDHOOD EDUCATION. 4 hours. Individualized program under supervision and guidance; practical experience in organized programs for the child below 6. Work with adults, college students, and children. (Same as Home Economics 547.)

550. INTRODUCTION TO GUIDANCE AND STUDENT PERSONNEL SERVICES. 3 hours. Philosophy, concepts, and objectives of guidance and student personnel programs; services, materials, methods and personnel involved in carrying on a program.

551. OCCUPATIONAL AND EDUCATIONAL INFORMATION. 3 hours. Sources, evaluation, collection, and filing of occupational and educational information; its use in counseling and in group procedures.

552. ANALYSIS OF THE INDIVIDUAL. 3 hours. Techniques and materials available for the study of the individual; interpretation and synthesis of individual inventory data and their application to the counseling process. Prerequisite: Educational Psychology 440.

553. METHODS AND TECHNIQUES OF COUNSELING. 3 hours. Philosophy, theory, and methods of counseling; techniques used by the counselor in realizing the objectives sought in the counseling interview. Prerequisite: 550, Psychology 447, or consent of the instructor.

554. ORGANIZATION AND ADMINISTRATION OF GUIDANCE SERVICES. 3 hours. Relationship of personnel work to instruction, supervision, and administration; survey of community agencies which can assist the school in its personnel program; role of the counselor as leader in coordinating and interpreting all phases of the guidance program. Prerequisite: 550.

555. SUPERVISED EXPERIENCE IN COUNSELING. 3 hours. A course offering the trainee opportunity to practice and to demonstrate his competency in the practical application and integration of the principles and methods which he has studied in the training program. Prerequisites: 550, 552, and 553.

556. ADVANCED COUNSELING PRACTICUM. 3 hours. Counseling theories; emphasis on improvement of competencies in counseling through extensive experience in guidance and counseling under supervision. Prerequisite: 555.

557. PRACTICUM IN COLLEGE STUDENT PERSONNEL SERVICES. 6 hours. A 2-semester (36 weeks) practicum course in College Student Personnel Services. Prerequisites: 550 and 6 additional graduate hours.

558. GROUP PROCEDURES IN GUIDANCE. 3 hours. Principles and techniques of group procedures in guidance; analysis of interactions and roles played within groups; the function of group counseling in the school setting. Prerequisites: 550, 553.

559. SPECIAL PROBLEMS IN GUIDANCE. 1, 2, or 3 hours. Seminar requiring individual investigation of problems in guidance, culminating in a research report. Prerequisites: 501, 550, and 6 additional hours of credit in guidance courses.

560. SEMINAR IN ELEMENTARY GUIDANCE. 3 hours. Readings, research, and discussions of the principles and techniques of guidance applicable to the elementary school. Prerequisite: 550.

561.¹ GUIDANCE AND THE DISADVANTAGED CHILD. 3 hours. Characteristics of the disadvantaged child and their origins; application of guidance principles and techniques to work with the disadvantaged child in the classroom; functions of teachers, counselors, and principals as they work with the disadvantaged child in a team effort.

565. ADVANCED CLINICAL TECHNIQUES IN SPEECH THERAPY. 3 hours. Theory and procedures of play therapy, role-playing, and group dynamics applied to speech therapy. Prerequisite: Special Education 454 or consent of instructor.

569. PROBLEMS IN SPECIAL EDUCATION AS APPLIED TO EDUCATION. 1, 2, or 3 hours. Seminar requiring individual investigation of problems in special education, culminating in a research paper.

570. SELECTION AND UTILIZATION OF EDUCATIONAL MEDIA. 3 hours. General principles and practices in selecting, organizing, and using major types of instructional materials in various school curricula and educational programs.

571.¹ EDUCATIONAL MEDIA. 3 hours. Instruction and manipulation of machines in the school system; sources, including production of materials to be used on machines; cross-media approach to instruction.

572. SURVEY OF COMMUNICATIONS. 3 hours. Perception motivation, and learning theory in the communications process. The contributions and application of educational media to communication and instruction in teaching-learning situations. Prerequisite: 570.

573. INSTRUCTIONAL TELEVISION IN EDUCATION. 3 hours. An analysis of instructional television programs, systems, and equipment as to contributions and integration in the teaching-learning process. Practice in production of instructional telecasts for direct and supplementary teaching.

¹May not be used to satisfy graduate degree requirements.

574. RESEARCH AND THEORY IN EDUCATIONAL MEDIA. 3 hours. Determination of educational objectives, audiences, and integrated uses of communications media; design and implementation of media research techniques with analysis and evaluation of results. Prerequisites: 570, 572.

575. PREPARATION OF INSTRUCTIONAL MATERIALS. 3 hours. Develops a basic pattern for making a wide variety of visual materials. Laboratory practice in applying such techniques as mounting, lettering, coloring, and illustrating. Preparation of maps, charts, pictures and posters for projected and non-projected use.

576. ADVANCED PRODUCTION OF EDUCATIONAL MEDIA. 3 hours. Communication skills in production of photographic instructional materials; planning, scripting, shooting, and editing black and white and color picture stories and sequences in filmstrips, still photos, and slides. Prerequisite: 575.

577. TECHNOLOGY IN EDUCATION. 3 hours. Technological innovations in educational process. Background and development of motion pictures, television, teaching machines, and instructional system in education. Prerequisite: 570.

578. ORGANIZATION AND ADMINISTRATION OF EDUCATIONAL MEDIA CENTERS. 3 hours. Development and management of an integrated educational media program including problems of selection, production, distribution and financing of resources for school and school system media centers. Prerequisite: basic courses in the field or consent of instructor.

590. SEMINAR IN INTERPERSONAL RELATIONSHIPS. Non-credit. Issues, trends, and encounters in interpersonal relationships. Prerequisite: enrollment as a major in Guidance or Student Personnel Services or consent of instructor.

598. THESIS. Maximum, 6 hours.

601. COMPARATIVE EDUCATION. 3 hours. Educational problems, philosophies, practices and institutions of other countries compared with education in the United States.

602. EDUCATIONAL SOCIOLOGY. 3 hours. Education and social patterns of living which exist in any community. Home, school, church, clubs, and all agencies of the community are conceived collectively as contributing educational influences in the life of a child.

603. TRENDS AND ISSUES IN READING INSTRUCTION. 3 hours. Advanced course designed to explore and critically appraise significant research studies, developments, and concerns related to the teaching of reading. Each student will undertake independent study of a problem of significance to him. Prerequisites: 501 and 505 or 506.

604. EXPERIMENTAL CURRICULUM DESIGNS IN EDUCATION. 3 hours. Educational objectives and modern means through which they may be achieved. New educational media and techniques of organization for learning.

607. ADVANCED DIAGNOSIS AND CORRECTION OF READING DISABILITIES. 3 hours. Advanced diagnostic testing and corrective instruction; case study reporting, laboratory experience in diagnosis and treatment of reading difficulties. Prerequisite: 507.

608. LABORATORY PRACTICUM IN READING. 3 hours. Supervised laboratory experience with individual and small groups of students; case conferences. Prerequisites: 607 and consent of instructor.

609. ADVANCED LABORATORY PRACTICUM IN READING. 3 hours. Supervised laboratory experience for advanced graduate students in reading needing further work with individual and small groups of students with reading disabilities; case conferences. Prerequisite or corequisite: 608 and consent of instructor.

610. SCHOOL FACILITIES AND EQUIPMENT. 3 hours. Principles involved in planning functional school buildings with emphasis on educational specifications, site selections, plant construction, equipment, operation, and maintenance. Prerequisite: 510.

611. PUBLIC SCHOOL FINANCE. 3 hours. Fiscal program of the public school; local, state, and federal. Taxes, budgeting, bond issues, and formulas for distribution of school funds. Prerequisite: 510.

612. SCHOOL PERSONNEL ADMINISTRATION. 3 hours. Principles and practices of administration as it concerns selecting and retaining school personnel. Placement, job analysis and evaluation, salaries and salary schedules, fringe benefits, and maintenance of morale. Prerequisite: 510.

613. SCHOOL LAW. 3 hours. National and state legal aspects of public school administration; emphasis upon state regulations. Prerequisite: 510.

614. SCHOOL-COMMUNITY RELATIONS. 3 hours. Principles and practices of public relations applied to education, development of school and community understanding through interaction, and the utilization of community and human resources for the improvement of public education. Prerequisite: 510.

615. SEMINAR IN EDUCATIONAL ADMINISTRATION. 3 hours. Recent developments, readings and research in educational administration, with opportunities for members of the group to make individual investigation of special problems. Prerequisite: 510.

616. THE COMPREHENSIVE SCHOOL SURVEY. 3 hours. Theory underlying the Comprehensive School Survey and the techniques of compilation, analysis, interpretation and presentation of survey information.

617. THE ORGANIZATION AND ADMINISTRATION OF HIGHER EDUCATION. 3 hours. History, philosophy, and structure of higher education in the United States; role and scope of various types of institutions; functional responsibilities and relationships of administrative personnel.

618. INTERNSHIP IN SCHOOL PRINCIPALSHIP. 6 hours. The individual according to his area of specialization is provided practical experience by being assigned to a principal, supervisor, or superintendent with whom he will work in the various duties of that position, under the supervision of a staff member from the University. Prerequisite: written consent of Dean of Graduate School.

619. FIELD STUDIES IN COMPARATIVE EDUCATION. 3 or 6 hours. Field study tours of selected areas outside the continental United States involving a minimum of 21 days of overseas travel. Text study and a term paper are required for each 3 semester hours of credit.

620. THE UNIQUE FUNCTION OF THE JUNIOR HIGH SCHOOL. 3 hours. Basic concepts underlying the junior high school; functions of the junior high school; curriculum and instruction; provision for slow, average, and gifted pupils; guidance and counseling.

621. IMPROVEMENT OF INSTRUCTION IN SECRETARIAL STUDIES. 3 hours. New classroom procedures and teaching techniques which have developed from recent research and experimentation. Stages of learning and the type of instruction and instructional materials used in each stage; problems of individual teachers and individual learners examined, and possible solutions worked out. (Same as Business Education 621.)

622. IMPROVEMENT OF INSTRUCTION IN BOOKKEEPING. 3 hours. Problems and techniques related to the skills, objectives, and content of bookkeeping; source of materials and suggested techniques for instruction and testing. (Same as Business Education 622.)

623. IMPROVEMENT OF INSTRUCTION IN GENERAL BUSINESS. 3 hours. Problems, skills, objectives, and content of general business; emphasis on techniques of presentation, testing, and source material. (Same as Business Education 623.)

625. SEMINAR FOR COOPERATING TEACHERS IN STUDENT TEACHING PROGRAM. 3 hours. Group discussion, individual conferences, reading and individual research on a particular area which would improve proficiency as a cooperating teacher. Designed to be completed in 2 semesters. Prerequisites: 515 or equivalent, experience as a cooperating teacher, and consent of the Department of Student Teaching.

628. SEMINAR IN SECONDARY EDUCATION. 3 hours. Problems pertinent to secondary education selected; recent developments and research in various areas presented and discussed.

629. PHILOSOPHY OF EDUCATION. 3 hours. Educational thought from primitive times to the present; outstanding philosophers and their contributions to modern education.

630. PRACTICUM IN EDUCATIONAL ADMINISTRATION. 3 hours. Special investigation and supervised participation in field problems. Prerequisite: 510 or consent of Dean of Education.

631. LOCAL, STATE, FEDERAL RELATIONS. 3 hours. Patterns of interrelationships of all levels of governmental units on scope, organization, and administration of education.

634. SEMINAR IN ELEMENTARY EDUCATION. 3 hours. Current issues, problems, and research in elementary education with opportunities for individual investigation of special problems.

635. MATERIALS AND INSTRUCTIONAL TECHNIQUES IN TEACHING READING. 3 hours. Materials and equipment for selected instructional techniques of teaching reading; laboratory projects, demonstrations, and development of criteria for selection and utilization of instructional support items in reading. Prerequisite: teaching experience or 505 or 506.

644. SEMINAR IN READING. 3 hours. Research in reading with opportunities for individual investigation of special problems.

645. CONTEMPORARY ISSUES IN EDUCATION. 3 hours. Issues, movements, and personalities affecting educational thought and practice. Prerequisite: consent of instructor. (For advanced graduate students, primarily doctoral candidates.)

651. FIELD EXPERIENCES IN OCCUPATIONAL DEVELOPMENT. 3 hours. Vocational theories, structures, and trends in this geographical area. Participants visit work sites and write occupational critiques of these visits. Prerequisite: 551.

670. ADVANCED EDUCATIONAL RESEARCH. 3 hours. Selected educational research methods and techniques; emphasis on experimental investigation and statistical design. Students prepare prospective dissertation proposals for presentation and critique. Recommended for doctoral students only. Prerequisites: 501 or equivalent and Educational Psychology 440 or proficiency in basic statistics.

680. THE TEACHING PROCESS. 6 hours. Directed internship in college teaching; concurrent seminar in problems relating to college teaching; conferences with supervising University personnel. Prerequisite: successful completion of doctoral preliminary examinations for a degree in higher education.

698. DOCTORAL DISSERTATION. Maximum, 9 hours.

LIBRARY EDUCATION

For Undergraduates Only

101. RESEARCH SKILLS. 1 hour. Designed for all students so that skills in using reference materials may be so developed that work in depth with various kinds of material can be done with the greatest ease.

102. LIBRARIES AND LIBRARIANSHIP. 3 hours. An orientation course planned to give students entering the curriculum for librarianship a general understanding of libraries and librarianship.

201. PRINCIPLES OF SELECTION. 3 hours. Criteria for selection in the light of instructional center objectives; reading habits and interest of students; curriculum; use of selection aids and reviewing media. Practice given in written annotations.

206. INTRODUCTION TO REFERENCE MATERIALS AND SERVICES. 3 hours. Basic reference sources for school, community, and special library service, their use in curricular units and in adult education, followed by practice in reference and methods in locating information.

308. METHODS IN EDUCATIONAL MEDIA. 3 hours. Theory and practice in selection and utilization of instructional materials, pictorial and graphic media, recordings, motion pictures, television. Laboratory experiences in display and presentation techniques including equipment operation. (Same as Education 308.)

309. AUDIO-VISUAL AIDS PRODUCTION. 3 hours. Techniques in preparation of teacher-made visual materials for bulletin boards, opaque materials, models, slides, felt boards, and other graphic materials; tapes, and other audio aids.

316. BOOKS AND MATERIALS FOR CHILDREN. 3 hours. (Formerly Library Science 205.) Printed and audiovisual materials in relation to the needs and interests of children. Selection and evaluation, sources and use of materials with children.

317. BOOKS AND MATERIALS FOR THE YOUNG ADULT. 3 hours. Printed and audiovisual materials in relation to the needs and interests of the adolescent (or secondary school student). Selection and evaluation, sources and use of materials with young people.

318. ORGANIZATION OF LIBRARY COLLECTIONS. 3 hours. Dewey Decimal Classification system and principles of descriptive cataloging. Prerequisite: ability to type. (Formerly Cataloging and Classification.)

319. BOOKS AND MATERIALS FOR THE ADULT. 3 hours. Adult printed and audiovisual materials; reading interests and habits of adults; reading guidance programs for adult readers.

401. METHODS OF ORAL PRESENTATION. 3 hours. Fundamental principles of the art of presenting book talks and storytelling; planning a program; location, study, and selection of suitable material for use; techniques of learning and presentation.

407. ADMINISTRATION AND ORGANIZATION OF LEARNING CENTERS. 3 hours. Current practices and major problems confronting the new concept of the school library as an instructional center. Preparation for school library practice work. Prerequisites: 102, 201, 316 or 317. Designed for education majors. (Formerly School Library Administration.)

410. LIBRARY PRACTICE WORK. 8 hours. Observation and supervised practice in every area of the library. This course fulfills a requirement for school or other librarians. Prerequisites: 102, 316 or 317, 318, and 407.

410B. LIBRARY PRACTICE WORK. 4 hours. Observation and supervised practice work in all areas of the library. This course fulfills a requirement for school or other librarians. Prerequisites: 102, 316 or 317, 318, and 407.

412. LITERATURE OF THE CURRICULUM. 3 hours. Library materials in the field of science and technology, humanities, and of social sciences; source materials for research; and selection of books, maps, periodicals, audiovisual materials, for school libraries. (This is an elective for secondary students.)

For Undergraduates and Graduates

470. PROCESSING AND DISSEMINATION OF NON-PRINT MEDIA. 3 hours. Systems for storage and retrieval of non-print material.

EDUCATIONAL PSYCHOLOGY

For Undergraduates Only

201. EDUCATIONAL PSYCHOLOGY. 3 hours. Applications of psychological principles to the educational process; nature and appraisal of the learner, the learning process and the conditions affecting them in childhood and adolescence; personality and adjustment or maladjustment of the school child and adolescent, with special reference to effects of the educative process; also, for students who have not had Psychology 101, supplementary study of the pertinent principles and facts of general psychology. Prerequisites: sophomore standing and Education 102.

303.¹ CHILD PSYCHOLOGY. 3 hours. Physical, mental, and social-emotional development of the individual, from the preschool period through the beginning of adolescence; laboratory work with children in a school setting, as a typical life-situation. Lecture 2 hours, laboratory 2 hours (to be arranged). Prerequisites: 201 and admission to candidacy for education majors; Psychology 101 for non-education majors.

304. ADOLESCENT PSYCHOLOGY. 3 hours. Physical, mental and social-emotional development and behavior of the adolescent; personality and adjustment or maladjustment in adolescence; motivation, interests, and capacities; some correlated observations of adolescents in a school setting, as a typical life-situation. Prerequisites: 201 and admission to candidacy for education majors; Psychology 101 for non-education majors.

¹All primary and upper elementary teachers should take Educational Psychology 303 the semester prior to taking Education 309, 310, and 409.

For Undergraduates and Graduates

440. STATISTICS FOR PSYCHOLOGY AND EDUCATION. 3 hours. Statistical procedures as applied to the study and interpretation of psychological and educational research and measurement. (Same as Psychology 440.) Prerequisite: 201 or Psychology 101.

442. EVALUATION AND REPORTING IN EDUCATION. 3 hours. Basic principles of measurement and analysis of human traits — ability, achievement, sociometric status; uses, misuses, interpretation of tests, rating, scales, special emphasis on group and individual conferences for discussion of evaluation results with pupils and parents. Prerequisite: 201 or Psychology 101.

443. MENTAL HEALTH IN EDUCATION. 3 hours. Positive goals of mental health, personal and social adjustment of the child and the educator in the school setting; interpersonal assessment of pupils' personalities, classroom management, group morale and cohesion, and teacher adjustment.

444. THE PSYCHOLOGY OF THE CULTURALLY DISADVANTAGED. 3 hours. Unique mental, physical, social, and emotional development of children from culturally different backgrounds. Emphasis on appropriate techniques of evaluation, and the research dealing with behavior change in children from the culturally different context.

For Graduates Only

541. PSYCHOLOGY OF LEARNING. 3 hours. Dominant theories and principles of learning, as a behavioral science, with emphasis on applications to human training or education and the shaping of human behavior (including actions, cognitive processes, concept formation, perception, attitudes, feelings or emotions, problem solving): the organismic, technological "systems" concept applied to learning. Some laboratory work to be assigned. Prerequisite: equivalent of a minor in psychology or education or consent of instructor.

***542. EVALUATION IN PSYCHOLOGY AND EDUCATION.** 3 hours. Construction, validation, and standardization of measuring instruments in psychology and education; achievement tests, aptitude tests, attitude scales, and rating scales. Prerequisite: 442, or Education 552, and at least the equivalent of a minor in either psychology or education; or consent of the instructor.

546. DYNAMICS OF HUMAN GROWTH AND DEVELOPMENT. 3 hours. Principles of developmental psychology with emphasis on the integrated nature of growth and development; dynamics of human development in the social context; topics of interest to professionals working with children on a regular basis, such as readiness, discipline, and development tasks. Prerequisite: 303 or 304.

552. ANALYSIS OF THE INDIVIDUAL. 3 hours. Techniques and materials available for the study of the individual; interpretation and synthesis of individual inventory data and their application to the counseling process. Prerequisite: 440 or equivalent.

640. DESCRIPTIVE STATISTICAL TECHNIQUES. 3 hours. Measures of central tendency and variability; introduction to sampling theory, Pearson's Product Moment Method correlation, biserial and point biserial correlations, curvilinear correlation, contingency correlation, partial and multiple correlation. Prerequisites: Education 501 and Educational Psychology 440 or equivalents.

641. CURRENT RESEARCH IN LEARNING. 3 hours. Procedures and findings of recent psychological research as it applies to teaching, learning,

school organization, and curriculum development; special attention to theories of learning, their current state of maturity and their implications for educational practice and further research. Prerequisite: 541 or equivalent.

642. TESTS OF SIGNIFICANCE AND EXPERIMENTAL RESEARCH DESIGN. 3 hours. Descriptive statistics and normal curve functions; study of inference and sampling theory, emphasizing parametric and non-parametric tests of significance; critical ratio, t-tests, chi square, analysis of variance, and problems of experimental design. Prerequisites: Education 501 and Educational Psychology 440 or equivalents.

643. SEMINAR IN CHILD PSYCHOLOGY. 3 hours. Personality dynamics and development in childhood with particular, but not exclusive, attention to the child in a school setting, as a typical life-situation; to include development of the self-concept; and effects of conflicting cultural impacts. Prerequisites: 546, Education 501. (Formerly 543.)

644. SEMINAR IN ADOLESCENT PSYCHOLOGY. 3 hours. Personality dynamics and development in adolescence with particular, but not exclusive, attention to the adolescent in a school setting as a typical life-situation; adaptive and maladaptive reactions to developmental tasks and cultural pressures of adolescence. Prerequisites: 546, Education 501. (Formerly 544.)

648. PSYCHOLOGY OF READING. 3 hours. Basic psychological processes involved in the learning and performance of reading behavior; sensory bases, perception, the psychological learning process, attitudes and motivation, and personality factors; clinical applications. Prerequisite: 201 or Psychology 101. (Same as Psychology 648.)

HEALTH, PHYSICAL EDUCATION AND RECREATION CURRICULA

Undergraduate Requirements

HEALTH AND PHYSICAL EDUCATION AND ELEMENTARY EDUCATION

For a double major: Education 102, 308, 309B-309L, 310B-310L, 404A, 404C, 409B-409L, 421; Educational Psychology 201, 303; Dance 442; Health 109, 316, 408; Physical Education 20A, 20B, 20C, 20E, 30D, 201, 335, 355, 356, 413, 415, 450—82 semester hours.

Special requirements: Art 204, Chemistry 111, Geography 202, Industrial Education 305, Library 316, Mathematics 115, 116, Music 30B, Physics 111, Political Science 202, Social Studies 303, Speech 101, Zoology 122-122L, and 123-123L.

HEALTH AND SAFETY EDUCATION

For a major: Health 109, 304, 408, 451, 452, 494; Physical Education 355, 356—22 semester hours. A certifiable minor must be completed.

Special requirements: Education 308; Educational Psychology 442; Home Economics 103; Microbiology 111; Psychology 245; Sociology 405; Special Education 446, 461; Speech 101; Zoology 122-122L, 123-123L.

For a minor: Health 109, 303 or 316, 408, 451, 452, 494; Physical Education 355; Zoology 122-122L, 123-123L—26-27 semester hours.

HEALTH, SAFETY, AND PHYSICAL EDUCATION (With Dance Emphasis)

For a major: Dance 53, 54, 55, 205, 263, 264, 359, 360, 442, 443; Health 109, 303, 404 or 408; Physical Education 1, 30A, 30B, 201, 355, 356, 411, 450—45 semester hours. A certifiable minor must be completed.

Special requirements: Education 402C; Speech 231, Zoology 122-122L, 123-123L.

For a minor: Dance 53, 54, 55, 205, 263, 264, 359, 360, 442, 443; Speech 231—20 semester hours. (Not acceptable in Education.)

HEALTH, SAFETY, AND PHYSICAL EDUCATION FOR MEN (With Coaching Emphasis)

For a major: Dance 53, 263; Health 109, 303, 404; Physical Education 30A, 30B, 30C, 30D, 30F, 30G, 201, 204, 301 or 302, 315, 355, 356, 406 or 416, 411, 415, 450 — 48 semester hours.

Special requirements: Education 402C; Speech 101; Zoology 122-122L, 123-123L.

For a minor including Coaching: Health 404 or 408; Physical Education 201, 355, 411, 450; 3 courses from 30A, 30B, 30C, 30D; 1 course from 301, 302, 406, 416; Zoology 122-122L, 123-123L—29 semester hours.

HEALTH, SAFETY, AND PHYSICAL EDUCATION FOR WOMEN

For a major: Dance 53, 54, 263; Health 109, 303, 404; Physical Education 30A, 30B, 30C, 30D, 30F, 30G, 201, 302, 315, 355, 356, 406, 411, 415, 450—47 semester hours. A certifiable minor must be completed.

Special requirements: Education 402C; Speech 101; Zoology 122-122L, 123-123L.

For a minor: Dance 53, 263; Health 404 or 408; Physical Education 2, 201,

355, 411, 450; 1 course from 302, 322, 406; 2 courses from 30A, 30B, 30C, 30D; Zoology 122-122L, 123-123L — 30 semester hours.

RECREATION

For a major: Dance 53, 263; Health 408; Physical Education 30A, 30B, 30C, 30D, 30F, 30G, 475; Recreation 161, 208, 402, 403, 421, 446, 447, 448, 449—51 semester hours. Completion of this curriculum will not result in teacher certification in the State of Louisiana.

Special requirements: Art 204; Industrial Education 305-305L; Journalism 306; Music 30B; Office Administration 317; Sociology 101; Speech 101, 231, 341. No minor available.

Graduate Requirements for the Master of Education (Health, Physical Education, and Recreation)

Undergraduate preparation for a graduate major or minor: a major in health and physical education or a minor in physical education as defined at Northwestern State University, or the equivalent.

Requirements for a major with a thesis: Physical Education 502¹, 515, 598, and at least 6 additional semester hours in health and physical education. Special requirements: Educational Psychology 440 and at least 3 additional semester hours in professional education courses. A total of 30 semester hours of graduate credit must be completed.

Requirements for a major without a thesis: Physical Education 502¹, 515, and at least 12 additional semester hours in health and physical education, to include 1 research report. Special requirements: Educational Psychology 440 and at least 3 additional hours in professional education courses. A total of 33 semester hours of graduate credit must be completed.

Requirements for a minor: a minimum of 12 semester hours in health and physical education.

A formal research report may be submitted in lieu of a thesis in any graduate course in health and physical education marked with an asterisk (*).

Graduate Requirements for the Master of Science in Education (Outdoor Education)

Admission requirements: bachelor's degree, evidence of academic ability, valid standard teaching certificate, and all other requirements for a Master of Education degree.

Required courses: Physical Education 502, Outdoor Education 501 and 601, Biology 550, Geography 521, and Sociology 416 — 18 semester hours.

Additional requirements: 15 semester hours selected from the following 3 groups of courses, with no more than 9 hours being chosen from any single group:

I. Anthropology 302; Geography 302, 307, 320; Social Work 305; Sociology 306, 307.

II. Art 411, 452; Educational Psychology 541; Education 516, 524, 531, 533, 604; Physical Education 543, Recreation 446.

III. Physical Science 502; Biology 501, 541, 542; Geology 403, 500; Zoology 304, 314, 417, 418.

For the Specialist in Education

Special requirements:

1. Health and Physical Education (30 hours minimum).

Physical Education 502¹, 546, 598; and 18 hours minimum of electives.

¹Education 501 may be substituted for this course with the consent of the Director of Graduate Studies in Health, Physical Education, and Recreation.

2. Professional Education (24 hours minimum).
Education 604, 628; Educational Psychology 440; and 15 hours minimum of electives.
3. Minimum of 6 hours in courses selected from the following fields:
anthropology, education, educational psychology, home economics (child development), psychology, sociology, and special education.
4. Minimum hours required: 60 (including master's degree credit).

THE DOCTORAL PROGRAM

The Doctor of Education and the Doctor of Philosophy in Education degrees are offered in health and physical education. Refer to the **Graduate School Bulletin** for further information.

Courses of Instruction

DANCE

For Undergraduates Only

53. **FOLK, SQUARE, AND BALLROOM DANCE.** 1 hour.
54. **BEGINNING AND INTERMEDIATE MODERN DANCE.** 1 hour.
55. **BEGINNING AND INTERMEDIATE TAP DANCE.** 1 hour.

205. RHYTHMIC ANALYSIS AND DANCE ACCOMPANIMENT. 2 hours. Rhythm and music structure in relation to its use for dance. Practical application of percussion instruments for dance accompaniment; selection of music for dance. Lecture 2 hours, laboratory 1 hour. Prerequisites: 53 and 54 or the equivalent.

263. INTERMEDIATE FOLK AND SQUARE DANCE. 1 hour. Folk and square dance on an intermediate level stressing quality in performance; recognition of cultural aspects of this area of dance; understanding and study of rhythm and requirements for exhibition. Practice in the calling of square dance. Lecture 1 hour, laboratory 2 hours. Prerequisite: 53.

264. INTERMEDIATE MODERN DANCE. 1 hour. Modern dance technique and composition on an intermediate level. Problems relating to choreography and performance will be presented. Lecture 1 hour, laboratory 2 hours. Prerequisite: 54.

359. DANCE COMPOSITION. 2 hours. Dance composition workshop. An advanced course for contemporary dance. Practice in choreography in preparation for performance of works created by students. Lecture 1 hour, laboratory 4 hours. Prerequisites: 54 and 264.

360. DANCE PRODUCTION. 2 hours. Dance production workshop. An advanced course in staging and producing contemporary dance programs. Practice in producing informal programs and formal concerts by the students. Lecture 1 hour, laboratory 4 hours. Prerequisites: 359 and Speech 231.

363. INTERMEDIATE AND ADVANCED BALLROOM DANCE. 1 hour. Intermediate and advanced ballroom dance skills. High performance level, competition and exhibition. Methods of teaching including rhythm, step analyzation, and organization for presentation to various age levels. Prerequisite: 53.

For Undergraduates and Graduates

442. CREATIVE RHYTHMS FOR CHILDREN. 3 hours. Rhythmic activities for children, with emphasis on the creative use of rhythm and

movement. Methods, materials and actual experiences with children in rhythmic activities. Lecture 3 hours. Prerequisites: senior standing and permission of instructor.

443. CURRENT THEORIES AND PRACTICES IN THE TEACHING OF DANCE. 3 hours. Current theories and practices for the creative use of folk, square, ballroom, tap, and modern dance for various age levels. Lecture 2 hours, laboratory 1 hour. Prerequisites: 263 and 264, or the equivalent.

For Graduates Only

553. DANCE DIRECTION. 3 hours. Dance production forms, lecture, demonstration, recital, and theatre production, involving the direction of original solos and group compositions, stage management (as well as lighting, scenery, properties), costuming, make-up, and arranging for dance accompaniment.

554. HISTORY AND PHILOSOPHY OF DANCE. 3 hours. Dance from primitive through present time; place of dance in education; theories, philosophies and trends in all phases of dance. Lecture 3 hours.

HEALTH EDUCATION

For Undergraduates Only

102. PERSONAL HEALTH AND SAFETY. 3 hours. Factors which influence and determine personal health and safety; methods used in preventing diseases in the individual and the community.

109. PERSONAL AND COMMUNITY HEALTH. 3 hours. Personal and community health problems; information concerning personal, family, and community health for prospective teachers of health. (For majors and minors.)

202. EMERGENCY AID TO THE INJURED. 1 hour. Emergency aid to victims of accidents and sudden illness; causes and prevention of accidents.

303. HEALTH EDUCATION. 3 hours. Materials and methods for teaching health in the secondary schools.

304. COMMUNITY HEALTH PROBLEMS. 2 hours. The home, public-health agencies, voluntary organizations, and private enterprises for improved community health.

311. DRIVER EDUCATION AND TRAFFIC SAFETY. 3 hours. Materials and methods for classroom instruction, organization and administration of driver education, traffic problems, and traffic safety programs. Lecture 2 hours, laboratory 2 hours. (For education majors only).

316. CURRICULUM DEVELOPMENT IN HEALTH EDUCATION. 2 hours. Materials and methods for teaching health in the elementary schools.

404. TECHNIQUES OF ATHLETIC TRAINING. 2 hours. First aid and athletic training with reference to safety in athletics, conditioning, diet, bandaging and taping, massage, hydrotherapy, and treatment of various injuries. Prerequisite: Zoology 123-123L.

408. INSTRUCTORS' COURSE IN EMERGENCY AID TO THE INJURED. 2 hours. Methods and materials in first aid; designed for those who desire instruction and experience in practical problems, and for those who wish to teach the American National Red Cross Junior and Standard courses in First Aid to the Injured.

For Undergraduates and Graduates

451. ORGANIZATION AND ADMINISTRATION OF HEALTH AND SAFETY EDUCATION. 3 hours. The school health and safety education program with emphasis on organization and administration.

452. PRINCIPLES AND PRACTICES IN HEALTH AND SAFETY EDUCATION. 3 hours. Principles and practices of health and safety education with certain specified field experiences.

494. SAFETY EDUCATION. 3 hours. Causes and prevention of accidents in home, school, traffic, industry, and recreational activities in the gymnasium, on the playground, and in aquatic sports; federal and state laws concerning legal liability; accident and liability insurance. Prerequisite: junior standing.

For Graduates Only

***537. PROBLEMS IN HEALTH EDUCATION.** 3 hours. Recognition and evaluation of pertinent health problems which confront communities and schools; examining and evaluating official and voluntary health agencies which are trying to solve or minimize the existing problems; community-school co-operation through school-community health councils.

595. RESEARCH PROBLEMS. 1-6 hours. Non-degree credit. May be repeated.

598. THESIS. Maximum, 6 hours.

698. DOCTORAL DISSERTATION. Maximum, 15 hours.

PHYSICAL EDUCATION

REGULATIONS

All undergraduate men and women students in the University, except veterans, must complete 4 semester hours of activities, preferably during the freshman and sophomore years.

Those who wish to continue practice in activities may do so by selecting additional courses. The intramural programs of the Women's Recreational Association and the Men's Intramural Sports Division afford further opportunities for participation and competition in sports. Extensive intercollegiate programs are carried on in varsity football, basketball, track and field, baseball, tennis, golf, swimming, and gymnastics.

Students may not schedule more than 1 activity course at a time without permission of the Department of Health, Physical Education, and Recreation.

A uniform, consisting of shirt, shorts, socks, and tennis shoes, is required for participation in the activity courses. Men and women will furnish their own uniforms unless otherwise informed.

ACTIVITY COURSES FOR MEN AND WOMEN

Men and women may fulfill the core requirement of 4 semester hours in physical education activity courses by completing P.E. 1 and any additional 3 of the following courses:

P.E. 1. BEGINNERS SWIMMING. 1 hour. May be by-passed upon the successful completion of a proficiency examination.

NOTE: 4 hours of physical education activity other than P.E. 1 will be required if it is by-passed.

P.E. 2. BODY MECHANICS. 1 hour. Beginning tumbling.

- P.E. 3. VOLLEYBALL. 1 hour.
- P.E. 4. SPEEDBALL OR SOCCER. 1 hour.
- P.E. 5. TOUCH FOOTBALL. 1 hour.
- P.E. 6. BASKETBALL. 1 hour.
- P.E. 7. SOFTBALL OR BASEBALL. 1 hour.
- P.E. 8. TRACK AND FIELD. 1 hour.
- P.E. 9. TENNIS. 1 hour.
- P.E. 10. BADMINTON. 1 hour.
- P.E. 11. PHYSICAL CONDITIONING. 1 hour.
- P.E. 12. HANDBALL OR PADDLEBALL. 1 hour.
- P.E. 13. GOLF. 1 hour.
- P.E. 14. ARCHERY. 1 hour.
- P.E. 15. AQUATICS. 1 hour. Intermediate.
- P.E. 16. BASIC SPORTS SKILLS AND MOTOR MOVEMENT. 1 hour.
- P.E. 17. CANOEING AND SMALL CRAFT. 1 hour.
- P.E. 18. GYMNASTICS. 1 hour. Intermediate tumbling and stunts.
- P.E. 19. WEIGHT TRAINING. 1 hour.
- P.E. 20. WEIGHT CONTROL. 1 hour.
- P.E. 21. FENCING. 1 hour.
- P.E. 22. RECREATIONAL ACTIVITIES. 1 hour. Prescribed exercises for students when regular activities are not appropriate. (Fall)
- P.E. 23. RECREATIONAL ACTIVITIES. 1 hour. Prescribed exercises for students when regular activities are not appropriate. (Spring).
- P.E. 26. BOWLING. 1 hour.
- P.E. 27. WRESTLING. 1 hour.
- P.E. 28. DIVING. 1 hour.
- P.E. 29. LIFESAVING AND WATER SAFETY INSTRUCTORS' COURSE. 1 hour. Theory and technique of swimming; emphasis on individual skills of student and methods of teaching skills.
- P.E. 51. VARSITY BADMINTON. 1 hour.
- P.E. 52. VARSITY BASEBALL. 1 hour.
- P.E. 53. VARSITY BASKETBALL. 1 hour.
- P.E. 54. VARSITY CROSS COUNTRY. 1 hour.
- P.E. 55. VARSITY DANCE. 1 hour.
- P.E. 56. VARSITY FOOTBALL. 1 hour.
- P.E. 57. VARSITY GOLF. 1 hour.
- P.E. 58. VARSITY GYMNASTICS. 1 hour.
- P.E. 59. VARSITY NEPTUNE CLUB. 1 hour.
- P.E. 60. VARSITY TENNIS. 1 hour.
- P.E. 61. VARSITY TRACK AND FIELD. 1 hour.
- P.E. 70. BASIC SKILLS IN BASKETBALL. 1 hour.

PHYSICAL EDUCATION

For Undergraduates Only

20A. TECHNIQUES OF ELEMENTARY GAMES. 2 hours. Theory and techniques of elementary games, including lead-up games, games of low-organization and team sports as they apply to this level. Lecture 1 hour, laboratory 4 hours.

20B. TECHNIQUES OF BASIC MOVEMENT SKILLS. 2 hours. Theory and techniques of basic skills, including instruction in basic movement fundamentals with emphasis on applied kinesiology. Lecture 1 hour, laboratory 4 hours.

20C. TECHNIQUES OF ELEMENTARY SELF-TESTING ACTIVITIES. 2 hours. Theory and techniques of teaching self-testing activities, including instruction in fitness, testing, gymnastics, stunts, self-testing, and track and field as they apply to this level. Lecture 1 hour, laboratory 4 hours.

20E. TECHNIQUES OF ELEMENTARY RHYTHMICAL ACTIVITIES. 2 hours. Theory and techniques of elementary rhythmical activities, including folk and square dance, rope skipping, and basic rhythmical fundamentals. Lecture 1 hour, laboratory 4 hours.

30A. TECHNIQUES OF TEAM SPORTS. 2 hours. Theory and techniques of basketball, volleyball and softball. Lecture 1 hour, laboratory 4 hours.

30B. TECHNIQUES OF INDIVIDUAL SPORTS. 2 hours. Theory and techniques of tennis, bowling, track and field. Lecture 1 hour, laboratory 4 hours.

30C. TECHNIQUES OF GYMNASTICS, TUMBLING AND WRESTLING OR PEP SQUADS. 2 hours. Theory and techniques of gymnastics, tumbling and wrestling; history, aims and objectives of the program; development of demonstrations and competitive programs. Men majors will take the gymnastics, tumbling and wrestling combination, and women majors will take gymnastics, tumbling and pep squad leadership. Lecture 1 hour, laboratory 4 hours.

30D. TECHNIQUES OF AQUATICS. 2 hours. Theory and technique of swimming, diving, boating, canoeing, waterfront safety; production of water shows; development of a waterfront program. Lecture 1 hour, laboratory 4 hours.

30E. APPRENTICE IN SPORTS. 1 hour. Apprenticeship for student assistants in sports activity classes; participation in planning and conducting a sports class. Prerequisite: consent of department head.

30F. TECHNIQUES OF TEAM SPORTS. 2 hours. Theory and techniques of soccer, touch football, speedball and weight training (women majors take field hockey and weight control instead of football and weight training).

30G. TECHNIQUES OF INDIVIDUAL SPORTS. 2 hours. Theory and techniques of badminton, archery, and golf.

201. INTRODUCTION TO PHYSICAL EDUCATION. 3 hours. An orientation course introducing the field of health and physical education; special emphasis on testing and evaluating student's interest and potentials in health and physical education. Required of all freshmen and transfer students during their first regular semester as majors. Lecture 2 hours, laboratory 2 hours.

204. INTRAMURAL ATHLETICS AND SPORTS OFFICIATION. 2 hours. Development of the intramural movement; aims and objectives of intramural sports; formulation of a program; methods of organizing competition, technique of officiating. Lecture 1 hour, laboratory 2 hours. Note: a minimum number of additional hours of practice will be required in the actual officiating at intramural and interscholastic sports held on the campus.

215. CURRICULUM DEVELOPMENT IN PHYSICAL EDUCATION. 2 hours. Methods in games and rhythms suitable for children; selection of materials based on the age-level characteristics of children in the primary grades. Lecture 1 hour, laboratory 2 hours. Prerequisite: 16.

301. TRACK COACHING METHODS. 2 hours. Form used in the various track and field events; placement of men in the various events; methods of organizing and conducting meets; other coaching problems.

302. BASEBALL, SOFTBALL, AND VOLLEYBALL COACHING METHODS. 2 hours. Coaching problems including team strategy, managerial problems, psychology of coaching, and methods of teaching skills and techniques.

303. GYMNASTICS COACHING METHODS. 2 hours. Coaching problems including individual and team strategy, managerial problems, psychology of coaching, and methods of teaching skills and techniques.

315. PROGRAM DEVELOPMENT IN PHYSICAL EDUCATION. 2 hours. Materials and methods for teaching physical education in the upper elementary schools. Prerequisite for upper elementary majors: 16.

322. INDIVIDUAL SPORTS COACHING METHODS. 2 hours. Special attention to methods of coaching individual sports—golf, tennis, and badminton; problems concerned with the promotion of tournaments, meets, and other competitive programs in the school and community.

335. METHODS AND MATERIALS OF ELEMENTARY PHYSICAL EDUCATION. 3 hours. Examination of materials, consideration of methods, and observations of elementary physical education classes.

355. KINESIOLOGY. 3 hours. Structural responses of the human body during movement, with special reference to anatomical and mechanical principles underlying performance of sports skills. Lecture 2 hours, laboratory 2 hours.

356. PHYSIOLOGY OF EXERCISE. 3 hours. Functional responses of the human body during movement, with special reference to elementary physiological principles underlying exercise and training. Lecture 2 hours, laboratory 2 hours. Prerequisites: Zoology 122-122L, 123-123L.

406. BASKETBALL COACHING METHODS. 2 hours. Special attention to the styles of individual and team offense and defense and the best methods for teaching these skills; analysis of the problems of coaching basketball.

411. ORGANIZATION AND ADMINISTRATION OF HEALTH AND PHYSICAL EDUCATION IN THE SECONDARY SCHOOL. 3 hours. Secondary school health and physical education, including aims, program planning, class management, and problems of organization and administration. Prerequisite: second-term junior standing.

413. ADMINISTRATION AND SUPERVISION OF ELEMENTARY HEALTH AND PHYSICAL EDUCATION. 3 hours. Elementary school health and physical education including aims, program planning, class management, and problems in the administration and supervision of this program. Prerequisite: second-term junior standing.

415. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION. 3 hours. Introduction to tests and measurements in health and physical education for teachers; emphasis on the administration of tests and grading procedures.

416. FOOTBALL COACHING METHODS. (for men). 2 hours. Styles of offense and defense; fundamental team play; running, kicking, and passing games; offensive and defensive strategy; coaching problems.

426. ADVANCED FOOTBALL COACHING METHODS. 2 hours. Offensive and defensive fundamentals; team play; kicking, passing, and running games; offensive strategy; defensive planning; coaching problems. Prerequisite: playing knowledge of football.

450. FOUNDATIONS OF PHYSICAL EDUCATION. 3 hours. Scientific facts pertaining to the physical, psychological, and social development of the individual; principles related to the role of physical education in present-day America; survey of the history of physical education. Prerequisite: senior status.

For Undergraduates and Graduates

475. ADAPTED PHYSICAL EDUCATION. 3 hours. Role of exercise in rehabilitating prevalent disabilities in children and youth, medical liaison, fundamental concepts of adjustment and development of the handicapped person, and recreation for the handicapped. Prerequisite: consent of department head.

For Graduates Only

502.¹ READING AND RESEARCH IN HEALTH, PHYSICAL EDUCATION, AND RECREATION. 3 hours. Reading and research in special areas of health, safety, physical education, and recreation; reports on research completed, research underway, and research needed in these areas.

515. THE ANALYSIS OF PHYSICAL MEASUREMENTS. 3 hours. The scientific basis for tests utilized in health, physical education, and recreation programs; methods of measurement; application of quantitative methods to test results; and the organization, administration, and supervision of testing programs. Prerequisite: 415 or equivalent.

518. READINGS AND CURRENT LITERATURE IN PHYSICAL EDUCATION. 3 hours. Introduction to and acquaintance with new books, periodicals, and current writings in the field of health and physical education.

***535. PROBLEMS IN PHYSICAL EDUCATION.** 3 hours. Problems in the field of physical education; physiological, social and psychological implications; facilities and equipment; selection and distribution of activities.

540. THE CONDUCT OF INTERSCHOOL ATHLETICS. 3 hours. Problems in coaching interschool athletics; development of sound educational objectives and a critical survey of the literature. (Each student will develop a special project in the sport of his choice.)

***542. SUPERVISION OF HEALTH AND PHYSICAL EDUCATION.** 3 hours. Modern methods in supervision of health and physical education; emphasis on methods of procedures in teaching; interpretation of evaluative procedures; teaching aids; recognition of child growth and development as an index for presenting materials and skill techniques.

***543. CURRICULUM CONSTRUCTION IN PHYSICAL EDUCATION.** 3 hours. Constructing curricula based on needs and interest of children in the

¹Students should not take this course and Education 501.

community correlating learning experiences with the total school curriculum; recognition of the contributions of physical education to total education; emphasis on planning progression in learning experiences.

***545. ADVANCED ADMINISTRATION OF HEALTH AND PHYSICAL EDUCATION.** 3 hours. Secondary school health and physical education, including aims; program planning; class management; problems of administration.

***546. PHYSIOLOGY OF EXERCISE.** 3 hours. Mechanistic adjustments of physiological systems to exercise and training, with special attention directed to current and needed research in exercise physiology. Lecture 2 hours, laboratory 2 hours. Prerequisites: Zoology 122-122L, 123-123L.

548. APPLIED KINESIOLOGY. 3 hours. Analysis and study of body movement with application to physical education activities. Lecture 2 hours, laboratory 2 hours. Prerequisite: 355.

563. MOTOR LEARNING. 3 hours. The psychology of learning as it pertains to motor skills; research bearing upon the teaching and learning of gross motor skills. Prerequisite: 502.

575. PHILOSOPHY OF PHYSICAL EDUCATION. 3 hours. Origin, nature, meaning, aims and objectives of the physical education profession as they relate to philosophies of idealism, realism, naturalism, and pragmatism; basic philosophies presented as they apply to method, discipline, objectives, evaluation, curriculum, the student, and the teacher in health and physical education.

578. HISTORY OF PHYSICAL EDUCATION IN EUROPE AND ASIA. 3 hours. Historical backgrounds of physical education in Europe and Asia; contributions of programs, facilities, and leaders in these continents; comparison between present-day programs and those of the past.

579. HISTORY OF PHYSICAL EDUCATION IN THE UNITED STATES. 3 hours. Professional leaders; growth of professional organizations; growth and development of facilities and equipment; professional literature in the field.

589A. COMPARATIVE PHYSICAL EDUCATION. 3 hours. Programs, facilities, and leaders in the United States compared with those which exist in foreign countries visited. Offered as an adjunct to the NSU Summer Tour Program which affords students an opportunity to travel in foreign lands. Research paper required.

589B. COMPARATIVE PHYSICAL EDUCATION. 3 hours. Programs, facilities, and leaders in Louisiana compared with those which exist in other areas of the United States. Offered as adjunct to the NSU Summer Tour Program which affords students an opportunity to travel to other areas of the United States. Research paper required.

595. RESEARCH PROBLEMS. 1-6 hours. Non-degree credit. May be repeated.

598. THESIS. Maximum, 6 hours.

603. EXPERIMENTAL DESIGN IN PHYSICAL EDUCATION RESEARCH. 3 hours. Techniques and procedures of laboratory research in physical education; construction of tests; design of experiments; application of advanced quantitative methods. Prerequisite: Proficiency in statistics.

615. MEASUREMENT AND EVALUATION PROCEDURES IN PHYSICAL EDUCATION. 3 hours. Theoretical bases and principles involved in measurement of maturity, physique type, body size, strength, motor ability, and application of these measures to physical education research. Construction of

new tests or modification of existing equipment for the research laboratory. Prerequisite: consent of instructor.

635. (A, B, C, D). DIRECTED INDIVIDUAL STUDY. 3 hours. Supervised research opportunities for scholarly graduate students desirous of conducting publishable research in addition to the dissertation requirements. (Course may be repeated, but must be taken in sequence.)

646. PHYSIOLOGICAL LABORATORY TECHNIQUES. 3 hours. Fundamental theory underlying the selection, operation, maintenance, and care of equipment encountered in an exercise physiology laboratory. Lecture 1 hour, laboratory 3 hours. Prerequisites: 546, 603 or consent of instructor.

648. APPLIED ANATOMY. 3 hours. Detailed anatomical analysis of human movement through dissection of pertinent systems of selected animal specimens. Lecture 1 hour, laboratory 3 hours. Prerequisites: Zoology 122, 206 or consent of instructor.

649. MECHANICAL ANALYSIS OF MOVEMENT. 3 hours. Cinematographical study of underlying mechanical principles which govern and limit human performance. Lecture 1 hour, laboratory 3 hours.

698. DOCTORAL DISSERTATION. Maximum, 15 hours.

RECREATION

For Undergraduates Only

101. INTRODUCTION TO RECREATION. 3 hours. Testing and evaluating student interest and potential in recreation. Required of all freshmen and transfer students during their first regular semester as majors.

208. CAMPCRAFT AND COUNSELING. 3 hours. Organization and administration of camping; counseling activities, with actual experience in canoeing, camping, and outing activities. Lecture 2 hours, laboratory 2 hours. Prerequisite: consent of instructor.

309. ENVIRONMENTAL BIOLOGY AND RECREATION. 3 hours. Field experience in recreation and biology, including elements of outdoor living; study of plants, animals, and topographic formations; techniques of collecting and preserving organisms; and collection of data and the preparation of a formal report. Planning and follow-up periods 1 week each; extended field trip to Texas, New Mexico, Arizona, 4 weeks. Prerequisites: 208, Biology 101, 102, or consent of instructor. (Same as Biology 309.)

402. INTERNSHIP IN RECREATION LEADERSHIP. 2 hours. Leadership opportunities in area recreation programs to provide training and preparation for 449.

403. SCHOOL AND COMMUNITY RECREATION. 3 hours. Recreational programs for communities, industrial groups, and various institutions; special attention to the responsibility of the school and the health and physical education teacher in the out-of-school program.

For Undergraduates and Graduates

421. RECREATION LEADERSHIP. 3 hours. Techniques of group leadership; interpretation of leadership; analysis of problems at various levels; and examination of methods of leadership.

446. OUTDOOR EDUCATION AND RECREATION. 3 hours. Principles and program practice; emphasis on school-centered outdoor education and recreation programs. Prerequisites: camp counseling experience or equivalent, and senior or graduate status. (Same as Outdoor Education 446.)

447. ORGANIZATION AND ADMINISTRATION OF RECREATION. 3 hours. Administration of public recreation and park services provided by municipal, district, county or parish, state and federal agencies; organizational structure as to finances, legal provisions, and public relations.

448. YOUTH AGENCIES. 3 hours. Youth agencies and the role of agencies in relation to adolescent youth problems and character development; administrative organization and management problems of social and voluntary agencies.

449. FIELD EXPERIENCE. 9 hours. Experience in working in both public and private recreation programs. The summer session will require 9 weeks of work in University-approved agencies. Prerequisite: 402.

For Graduates Only

559. RESEARCH PROBLEMS. 1-6 hours. Non-degree credit. May be repeated.

OUTDOOR EDUCATION

For Undergraduates Only

201. INTRODUCTION TO OUTDOOR EDUCATION. 3 hours. Development of outdoor education including philosophy, local organization, financing, staffing, existing programs, objectives and procedures.

For Undergraduates and Graduates

446. OUTDOOR EDUCATION AND RECREATION. 3 hours. Principles and program practice with special emphasis on school-centered outdoor education and recreation programs. Prerequisites: camp counseling experience or equivalent; senior or graduate status. (Same as Recreation 446.)

For Graduates Only

501. FOUNDATIONS OF OUTDOOR EDUCATION. 3 hours. History, principles, resources, teaching methods, and program practice for outdoor education. Prerequisite: consent of instructor.

526A. WORKSHOP IN OUTDOOR EDUCATION. 3 hours. Methodology of teaching in the out-of-doors; field trips; guest lecturers; direct experience in teaching.

601. SEMINAR IN OUTDOOR EDUCATION. 3 hours. Latest developments and future trends in the field; development of sound philosophy and foundation for effective and positive action on the part of seminar members. Prerequisite: 501 or consent of instructor.

HOME ECONOMICS

Curricula

Undergraduate Requirements

EARLY CHILDHOOD EDUCATION

For a major: Home Economics 105, 301, 301A or Education 305, 416, 418 or Education 418; Education 102, 309A, 310A, 311, 404A, 404B, 409A, 421; Educational Psychology 201, 303—57 semester hours.

Special requirements: Art 204; Biology 101-101L, 102-102L; English 400; Geography 202; Health 316; History 201, 202; Library 316; Mathematics 115, 116; Music 30A, 40; Physical Education 16, 215; Physics 111; Chemistry 111; Political Science 202; Social Studies 303; Speech 350.

HOME ECONOMICS EDUCATION (Vocational)

For a major: Home Economics 103, 104, 201, 203, 301, 302, 303, 304, 305, 310, 313, 403, 413, 416, and 6 hours of home economics electives¹—47 semester hours.

Special requirements: Art 108; Chemistry 107-107L, 108 or 104-104B; Microbiology 206-206L; Zoology 123-123L.

HOME ECONOMICS (General)

For a major: Home Economics 103, 104, 201, 203, 301, 302, 303, 304, 305, 310, 313, 403, 413, 416, 419—44 semester hours.¹

Completion of this curriculum will not result in teacher certification.

Special requirements: Art 108; Plant and Soil Science 345-345L; Psychology 101, 302; Sociology 405; Zoology 123-123L. (The professional education requirements do not apply to this curriculum.)

For a minor (not acceptable in Education): Home Economics 211, 212, 301, 416, and 5 hours chosen with the approval of the head of the department—18 semester hours.

HOME ECONOMICS AND SECRETARIAL ADMINISTRATION

For a major: Home Economics 101,¹ 102,¹ 103, 201, 203, 301, 302, 304, 305; 310 or 313, 403, 413, 416, 419, 408 or Finance 215; Accounting 205; Office Administration 101 or 102, 201, 202, 203, 210, 301, 314, 317, 320; 3 hours in business electives—72-73 semester hours. Completion of this curriculum will not result in teacher certification.

Special requirements: Art 108; Psychology 101. (The professional education requirements do not apply to this curriculum.)

DIETETICS AND INSTITUTIONAL MANAGEMENT

For a major: Home Economics 102, 103, 201, 202, 203, 301, 302, 305, 307, 400, 403, 409, 426, 40A—46 semester hours. This curriculum does not prepare for teacher certification.

Special requirements: Accounting 205; Art 108; Chemistry 103-103L, 203-203L, 204-204L; Economics 201, 202; Management 427; Marketing 323; Microbiology 206-206L; Psychology 101; Educational Psychology 201; Social Studies 101; Sociology 101; Zoology 123-123L. (The professional education requirements do not apply to this curriculum.)

INTERIOR DESIGN

For a major: Home Economics 101, 203, 301, 302, 305 or 408, 310, 313, 412, 413, 416, 425; Art 101, 102, 103, 113, 114, 205, 208, 309, 320, 419, 427 —

¹Home Economics 101 and 102 required if student does not demonstrate superior achievement on entrance examination.

66 semester hours. This curriculum does not prepare for teacher certification.

Special requirements: anthropology, 3 hours; Marketing 220, 221; Psychology 101; speech, 3 hours. (The professional education requirements do not apply to this curriculum.)

Graduate Requirements

Two programs for the graduate degree, Master of Science in Education, are offered. The 1st, with a major in **Home Economics Education**, is for students who wish to certify for working with student teachers and for supervision of instruction in home economics; or to strengthen preparation for teaching home economics at the secondary level. The 2nd, with a major in **Early Childhood Education**, prepares for teaching child development at the college level and for teaching in programs for the child below 6 such as nursery school, day care centers and kindergarten.

Home Economics Education

Master of Science in Education

Admission requirements for a major: 34 semester hours distributed in the following areas: foods and nutrition, textiles and clothing, housing and home management, child development and family relations; valid Louisiana certificate for teaching.

Special requirements for a major: Education 501 or 590, 527 or Home Economics 415; a minimum of 18 semester hours in home economics, 6 semester hours in education, and 6 hours in coursework including research.

Special requirements for certification for supervision of student teaching in vocational home economics: Education 512, and Home Economics 415 or Education 527, plus 6 hours chosen from the following home economics courses: 502, 507, 513, 514.

Undergraduate preparation for a minor: 34 semester hours distributed in the following areas: food and nutrition, textiles and clothing, housing and home management, child development and family relations.

Early Childhood Education

Master of Science in Education

Admission requirements: valid certificate for teaching in a related field or in early childhood education; minimum of 18 hours of child development, education, and psychology including child development and/or early childhood education, 6 hours.

Required courses: 15 semester hours from the following according to each student's need:

Home Economics (Education) 417. 3 hours. Advanced Pre-Primary Methods.

Home Economics (Education) 418. 3 hours. Administration and Organization of Pre-Primary Programs.

Home Economics (Education) 547. 4 hours. Practicum in Early Childhood Education.

Home Economics 501. 3 hours. Advanced Child Development.

Home Economics 502. 3 hours. Family Life Education in the Schools.

Home Economics 504. 1-3 hours. Special Problems in Home Economics.

Home Economics 516. 3 hours. Dynamics of Family Relationships.

Home Economics 590. 3 hours. Seminar in Child Development and Family Relations.

Electives: 9-15 semester hours. The following courses are recommended:

Education 504. 3 hours. Children's Literature.

Education 505. 3 hours. Reading Instruction in the Elementary School.

Education 515. 3 hours. Supervision of Student Teaching.

- Educational Psychology 541. 3 hours. Psychology of Learning.
 Educational Psychology 546. 3 hours. Dynamics of Human Growth and Development.
 Educational Psychology 643. 3 hours. Seminar in Child Psychology.
 Home Economics 411F. 3 hours. Study Tour.
 Special Education 446. 3 hours. Introduction to the Study of Exceptional Children.
 Special Education 464. 3 hours. Education of the Maladjusted.
 Special Education 561. 3 hours. Development of Language and Speech.
 Research: 3-9 hours.
 Education 501. 3 hours. Educational Research.
 Home Economics 598. 6 hours. Thesis.

Special requirements for preparation for supervision or working with student teachers in early childhood: (in addition to required courses named above) Education 514, 515.

Courses marked with an asterisk (*) are those courses in which formal written reports in lieu of a thesis may be submitted.

Courses of Instruction

For Undergraduates Only

101. PERSONAL CLOTHING PROBLEMS. 3 hours. Selection of clothing for the individual and the occasion; construction of garments with emphasis on basic techniques of clothing construction. Lecture 1 hour, laboratory 4 hours.

102. FOOD STUDY AND PREPARATION. 3 hours. Foods essential to good nutrition; practical application to meal planning, preparing and serving food for today's family. Lecture 1 hour, laboratory 4 hours.

103. BASIC NUTRITION. 3 hours. Fundamental principles of human nutrition with application to health and physical fitness.

104. PERSONAL ADJUSTMENT FOR FAMILY LIVING. 2 hours. Preparation for living effectively through an understanding of one's self and others; the individual's immediate concerns in relation to present and future family life; vocational opportunities for the home economist. Open to freshman non-majors.

105. FOOD PREPARATION AND NUTRITION FOR CHILDREN. 3 hours. Nutritional needs during reproduction, growth, and later life; adjusting meals to meet needs of children. Children's food habits, and application of food principles to preparation and management of food for preschool groups. Lecture 2 hours, laboratory 2 hours.

112. SOCIAL USAGE. 1 hour. Fundamental social concepts relative to contemporary living in the home, community, and professional world. Designed to assist young men and women in relation to personal problems concerning special ceremonies, manners and dress, entertaining, public life, correspondence, and travel. Open to majors and non-majors.

201. FOOD STUDY AND PREPARATION. 3 hours. Basic principles underlying cookery; food cost. Lecture 1 hour, laboratory 4 hours.

202. ADVANCED NUTRITION. 3 hours. Fundamentals of nutrition with special emphasis on the relation of food to health and efficiency; practical application of nutritional principles to selection of food for the family. Lecture 2 hours, laboratory 2 hours. Prerequisites: 201, Chemistry 108, Zoology 123.

203. TEXTILES. 3 hours. Textile fabrics, their selection, care and use; special emphasis on the problems of the consumer.

204. NUTRITION. 2 hours. Elementary principles of nutrition and dietary planning; school nutrition problems and the means of improving dietary practices. For non-majors only.

211. CLOTHING SELECTION AND CONSTRUCTION. 3 hours. Making and assembling a wardrobe suited to the college girl and her pocketbook; construction of garments using commercial patterns and short cuts in clothing construction. Lecture 2 hours, laboratory 2 hours. For non-majors.

212. MEAL PLANNING AND FOOD PREPARATION. 3 hours. Basic principles and general information for future homemakers related to meal planning, preparation and serving meals for families; consumer information and nutritional needs of family members as factors influencing meal planning; preparation and serving food for special occasions. Lecture 1 hour, laboratory 4 hours.

301A. THE CHILD'S ENVIRONMENT. 3 hours. Literature, art, music, and play of the pre-school child; selection and design of equipment and play materials; housing and furnishings of nursery schools and kindergartens. (Same as Education 305.)

302. HOME MANAGEMENT. 3 hours. Philosophy of homemaking; family and individual goals and the means of reaching them; management of resources related to responsibilities of the homemaker.

304. FAMILY CLOTHING. 3 hours. Psychological, social, and economic factors influencing clothing selection and construction; budgeting the clothing dollar; construction of garments, using new methods which will contribute toward greater skill and speed in clothing construction; clothing for children. Lecture 1 hour, laboratory 4 hours.

305. MEAL MANAGEMENT. 3 hours. Planning, preparing and serving food for various family groups and modes of living; special occasion meals on different income levels; management and work simplification. Lecture 1 hour, laboratory 4 hours. Prerequisite: 103 or 202.

307. LARGE QUANTITY COOKERY. 4 hours. Standard methods of food production in quantity; menu planning for institutions; food service; use of equipment. Lecture 1 hour, laboratory 6 hours. Prerequisite: 305.

310. HOUSE PLANNING AND FURNISHING. 3 hours. Houses, house plans and furnishings; making and adapting house plans; furnishings from artistic and economic points of view.

311. HOME NURSING. 2 hours. Prevention and care of illness in the home; discussions, demonstrations, and supervised practice.

312. GENERAL HOMEMAKING. 3 hours. Basic principles of home-making; planning and furnishing the home; clothing selection; meal planning and table service; consumer buying; the child in the home. Lecture 2 hours, laboratory 2 hours. For non-majors.

313. PROBLEMS IN HOME FURNISHINGS. 2 hours. Practical problems related to the furnishing and decorating of the home. Lecture and laboratory 4 hours.

400. INSTITUTIONAL ORGANIZATION AND MANAGEMENT. 3 hours. Principles of organization and management as applied to institutional administration; personnel management and business organization; accounting principles as applied to school cafeterias, residence halls, and commercial food-service units. Prerequisite: 307.

403. HOME-MANAGEMENT RESIDENCE. 4 hours. Experience for students in living together in a group where opportunity is provided for the

development of the managerial responsibilities of the home. Prerequisites: 302, 305.

405. LUNCHROOM MANAGEMENT. 2 hours. Nine weeks of experience in a lunch room; planning, preparing, and serving school lunches; practice in quantity cookery. Lecture 1 hour, laboratory 6 hours. Prerequisite: 305.

406. FOOD PRESERVATION. 2 hours. Specific methods of food preservation; laboratory experience in preserving meats, fruits, and vegetables by freezing and canning. Lecture 1 hour, laboratory 2 hours. Prerequisites: 201 and Microbiology 206-206L.

425. INTERIOR DESIGN PRACTICUM. 6 hours. Studio instruction and practical experience in planning and executing decoration of interiors, with careful study of the decorator's problems. Prerequisites: Art 419 and Home Economics 310 or 313. (Same as Art 425.) (Supervised by Department of Home Economics.)

40A. APPRENTICESHIP IN INSTITUTIONAL MANAGEMENT. 4 hours. Experience in food service in the dining hall, high school, or elementary school cafeteria. Lecture 1 hour, laboratory 6 hours.

42A. CRAFTS. 3 hours. Individual problems in selected media, using inexpensive materials and simple tools. Planned to meet the needs of teachers, extension agents, camp counselors and those desiring a hobby. Lecture 1 hour, laboratory 4 hours.

42B. WEAVING. 3 hours. Hand-loom weaving; preparing warp; threading looms; making useful articles. Lecture 1 hour, laboratory 4 hours.

For Undergraduates and Graduates

301. CHILD DEVELOPMENT AND GUIDANCE. 4 hours. Physical, mental, social and emotional development and guidance of a child; directed observation and participation in the Nursery School.

303. TAILORING. 3 hours. Techniques of tailoring applied to making coats and suits. Lecture 1 hour, laboratory 4 hours. Prerequisites: 203, 304.

402. EXPERIMENTAL FOODS. 3 hours. Experimental methods used to study factors affecting the quality of foods. Lecture 1 hour, laboratory 4 hours. Prerequisites: 3 hours of nutrition and 6 hours of chemistry.

408. CONSUMER PROBLEMS. 3 hours. Buying problems of the consumer; principles of purchasing household commodities. Prerequisite: junior standing.

409. DIET AND DISEASE (NUTRITION AND DIET THERAPY). 3 hours. Dietetic principles applied to abnormal conditions. Lecture 2 hours, laboratory 2 hours. Prerequisites: 202, 305, and Chemistry 204-204L.

***411. SPECIAL PROBLEMS IN HOME ECONOMICS.** 3 hours. Individual and class study of specialized problems; designed for advanced students who are interested in and have a need for work in a particular area of home economics.

411F. SPECIAL PROBLEMS IN HOME ECONOMICS. 3 hours. Study tour.

412. FAMILY HOUSING. 3 hours. Housing needs of families of different types and ways these needs can be met in various cost levels; ways to improve appearance, convenience, efficiency of houses through selection and arrangement of furniture and equipment. Prerequisite: 310.

413. HOUSEHOLD EQUIPMENT. 2 hours. Physical principles, construction, materials and economic considerations underlying selection, use and care of household equipment with special application to small equipment. Lecture 1 hour, laboratory 2 hours.

***414. FAMILY FINANCE.** 3 hours. Economic problems of single individuals and families; family incomes, expenditures, standards and levels of living; emphasis on management and resources to achieve personal and family goals.

415. THE HOME ECONOMICS CURRICULUM IN SCHOOL AND COMMUNITY. 3 hours. Organization of home economics curricula in the school and community; selection of instructional materials for the program; adult education; home experiences; Future Homemakers of America. Prerequisite: Education 401.

416. FAMILY DEVELOPMENT. 3 hours. Relationships involved in family living; emphasis on the beginning family, the expanding family with small children and adolescent children, and the contracting family with grown children; problems of in-laws and old age dependents in the family.

417. ADVANCED PRE-PRIMARY METHODS. 3 hours. (or improving instruction in Pre-primary Programs). Social, emotional and intellectual needs of the pre-primary child. Guidance methods and techniques of working with pre-school children, with particular attention to social, emotional and intellectual needs, including developing and testing for school readiness; schedule and program planning. Examination of research reports related to this area. Prerequisite: 6 hours in child development and/or child psychology. Lecture and laboratory. (Same as Education 417.)

418. ADMINISTRATION AND ORGANIZATION OF PRE-PRIMARY PROGRAMS. 3 hours. Philosophy and objectives of pre-primary programs. Methods of organizing and operating kindergartens, nursery schools, day care centers and play groups for children below 6 years of age. Housing; materials and equipment; staff records. (Same as Education 418.)

419. HOUSEHOLD EQUIPMENT AND DEMONSTRATION TECHNIQUES. 3 hours. Principles and techniques of demonstration as applied to teaching or promotional work. Construction, materials, and economic considerations underlying the market selection, performance, use and care of major household appliances. Lecture 2 hours, laboratory 2 hours. Prerequisite: 413 or consent of instructor.

426. GOURMET FOODS. 3 hours. Historical background of sectional foods in the United States and foreign foods; creativity in food preparation; methods of enhancing appearance and taste of dishes for family or quantity food service; preparation and service of these foods for parties. Lecture 1 hour, laboratory 4 hours. Prerequisites: 201, 305, and 3 hours of nutrition.

For Graduates Only

501. ADVANCED CHILD DEVELOPMENT. 3 hours. Growth and development of the infant and the young child with emphasis on guidance and behavior problems of the normal child in the home. Prerequisite: 301 or Psychology 303 or consent of instructor.

***502. CHILD DEVELOPMENT AND FAMILY LIFE EDUCATION IN THE SCHOOLS.** 3 hours. Utilizing community and educational resources in teaching child development and family relations; presentation and examination of materials and subject matter basic to understanding the growth and development of children and relations within the family.

***503. SPECIAL STUDIES IN FOODS AND NUTRITION.** 3 hours. Recent scientific advances in this field; demonstrations and new techniques applicable in teaching.

***504. PROBLEMS IN HOME ECONOMICS.** 1-3 hours. Special problems in teaching home economics in the secondary school program, selected in accordance with needs of the students.

505. ADVANCED TEXTILES AND CLOTHING. 3 hours. Recent research and new developments in the textile field and clothing construction.

506. DRESS DESIGN AND CONSTRUCTION. 3 hours. Creative and current garment design and construction. Relationship of construction to fashion, fabric, figure, and personality.

507. RESOURCE MATERIALS AND TEACHING AIDS IN CLOTHING AND TEXTILES. 3 hours. Selection, evaluation and preparation of illustrative materials; collection and organization of teaching aids; examination of new materials, techniques and laboratory procedures in the field of clothing and textiles. Designed for teachers, home demonstration agents, and other specialized groups. Lecture 1 hour, laboratory 4 hours.

508. CLOTHING—ITS SOCIAL AND PSYCHOLOGICAL ASPECTS. 3 hours. Theory and research concerning clothing as a factor in the physical, social and psychological environment of man, and man's response to and use of clothing as an aspect of his individual behavior and his culture.

511F. CLOTHING AND TEXTILES STUDY TOUR. 3 hours. Study tour with emphasis on clothing, textiles, and merchandising; visits to selected textile mills, fashion houses, and merchandising marts; related readings and written reports.

***513. ADULT EDUCATION IN HOME ECONOMICS.** 3 hours. Principles and methods in education for adults with emphasis on the significance of, and the home economist's role in continuing education; procedures for organizing, conducting, and evaluating programs of study.

***514. PHILOSOPHY OF HOME ECONOMICS EDUCATION.** 3 hours. Historical developments relative to home economics as a field of study; conceptual framework on which the field is based; current problems and evolving trends in home economics education.

515. CURRICULUM DEVELOPMENT FOR HOME ECONOMICS. 3 hours. Changing culture, contemporary trends and problems relative to home economics, consumer and homemaking education at the secondary level; development of units of study and programs for the secondary level. Prerequisites: teaching experience, Home Economics 415 or 408 or consent of instructor.

516. DYNAMICS OF FAMILY RELATIONSHIPS. 3 hours. Factors associated with marital success, family interaction, and interpersonal adjustments within the family; parent-child relationships as a factor in the child's behavior and development; current literature and related research. Prerequisite: 416 or Sociology 405 or consent of instructor.

547. PRACTICUM IN EARLY CHILDHOOD EDUCATION. 4 hours. Individualized program under supervision and guidance; practical experience in organized programs for the child below 6. Work with adults, college students, and children. (Same as Education 547.)

***590. SEMINAR IN CHILD DEVELOPMENT AND FAMILY LIFE.** 3 hours. Readings, reports, and discussions of recent findings in the area of child development and family living. Prerequisites: 301 or 501; 416; or consent of instructor.

598. THESIS. Maximum, 6 hours.

SPECIAL EDUCATION

Undergraduate Requirements

A Minor for Majors in Psychology:

Majors in psychology may secure a minor in special education by completing 18 semester hours, as designated by this Department, which must include Special Education 446. This minor in no way qualifies the holder as a teacher of exceptional children under regulations of the Louisiana State Department of Education.

A Minor for Majors in Education:

Certification in Special Education as a Teacher of Exceptional Children requires a regular, valid Louisiana certificate for teaching normal elementary or secondary students in addition to specialized courses. The Special Education Department co-ordinates the offering of curricula for teachers of exceptional children by the Department of Education. A student desiring certification in 1 or more of the specialized areas should confer with the Special Education department head as early in his University career as possible. A student majoring as a secondary education major may not minor in special education; exceptions: health and physical education, art, music, home economics, industrial education. These students must receive approval by their department heads.

The requirements for certification in any 1 of the special areas listed below may be met during the regular undergraduate program by using the courses indicated as electives or as a minor.

Special Undergraduate Requirements

In addition to a regular, valid Louisiana certificate for teaching normal elementary or secondary students, the following courses are required for certification in all areas of special education:

Arts and Crafts	3 hours
Art 204 or Industrial Education 305	
Tests and Measurements	3 hours
Educational Psychology 442	
Child or Adolescent Psychology	3 hours
Educational Psychology 303 or 304 ¹	
Introduction to Study of Exceptional Children (Special Education 446)	3 hours
Additional requirements in specific areas are:	
Orthopedically Handicapped and Special Health Problems (P.E. 355; Special Education 461, 462)	
Mentally Retarded (Special Education 466, 467)	
Socially Maladjusted and Emotionally Disturbed (Psychology 445; Social Work 303 or Sociology 405; Special Education 464)	

For Preprofessional Preparation in Speech Pathology

Speech pathology is a specialized career field devoted to the study and methods for treatment of persons handicapped with communicative disorders. At the preprofessional level students follow a prescribed course of study in speech pathology as well as a curriculum in either primary, upper elementary, or secondary education. The speech pathology curriculum is designed to meet the preprofessional requirements of the American Speech and Hearing Association and to prepare a student for study at the graduate level in the professional program. (Consult the appropriate degree programs.)

¹If a student's curriculum includes Educational Psychology 303, he should enroll for Educational Psychology 304 or vice versa.

Graduate Requirements

For The Master of Education

This program is intended for persons who hold a regular, valid Louisiana certificate for teaching normal elementary or secondary students and wish to obtain certification in 1 or more of the specialized areas.

A. Required of all students in this graduate program:

Education 501 and the following (if comparable undergraduate certification courses have not been completed):

Art (selected from 404, 411, 414, 416, 417, or 511)

Educational Psychology 442 or 542; 546

Special Education 446

B. Additional courses to complete Louisiana certification requirements in 1 of the following specialties:

1. Mentally Retarded:

Special Education 466, 467

2. Socially Maladjusted and Emotionally Disturbed:

Psychology 445

Speech Education 464

Social Work 303

3. Speech Pathology:

Psychology 447

Special Education 370, 371, 372, 450, 454, 455, 458, 459

Practicum (clinical; at least 200 clock hours)

It is possible to earn a master's degree and certify in 1 or more of the 3 specialties listed above in 4 summer sessions. (See also Admission Requirements and General Requirements under Graduate School in this Catalogue; refer to Primary and Upper Elementary Education curricula under College of Education.)

If credit for equivalent undergraduate courses acceptable for certification purposes has been earned, other graduate courses may be substituted.

For Master of Arts in Special Education

PROFESSIONAL SPEECH PATHOLOGY

Upon completion of a preprofessional undergraduate program at Northwestern State University or a similar program at another college or university, a student applies for admission to the Graduate School. Acceptance by the Graduate School permits the student to enroll in the professional program in speech pathology for a minimum of 1 year of graduate work to fulfill the requirements for the Certificate of Clinical Competence (CCC) awarded by ASHA.

Successful completion of the professional program results in attainment of the master's degree which is required for clinical certification by ASHA. In addition to satisfactory completion of course requirements the student must fulfill the Department's requirements related to the clinical program. The Speech and Hearing Center serves as the laboratory for this supervised experience.

A suggested minimal program of professional study at the graduate level is listed below. Modifications in this program may be approved as indicated by the director of the professional program on the basis of: (1) the needs and interests of the student; (2) the requirements of the Graduate School; and (3) the requirements of ASHA for clinical certification.

Requirements: minimum of 32 semester hours as follows:

*Education 501. Educational Research	3 hours
Education 553. Methods and Techniques of Counseling	3 hours
English 411. An Introduction to Linguistics	3 hours
*Special Education 556. Seminar in Stuttering	3 hours
*Special Education 463. General Semantics	3 hours
Special Education 555. Seminar in Aphasia and Related Disorders	3 hours
Special Education 550. Advanced Clinical Practicum in Speech Therapy or Special Education 450	3-5 hours
Special Education 470. Methods of Speech Diagnosis	3 hours
Special Education 561. Development of Language and Speech	3 hours
*Special Education/Psychology 563. The Psychology of Speech	3 hours
*Special Education 565. Advanced Clinical Techniques in Speech Therapy	3 hours
*Special Education 570. Seminar in Speech Pathology	1-9 hours

The asterisk (*) denotes courses in which formal written reports in lieu of a thesis may be submitted.

Students who wish to enter the professional program leading to the master's degree but who do not hold a teacher's certificate and who were not previously enrolled in a preprofessional program in speech pathology can obtain the Master of Arts degree in Special Education by meeting these preprofessional deficiencies: Special Education 370, 371, 372, and 1 of the following: Psychology 205 or 447, Educational Psychology 303 or 304, Special Education 446 or 454 (total of 12 semester hours). This will not certify one to receive a valid Louisiana Teaching Certificate.

Students who were not previously enrolled in a preprofessional program in speech pathology will be expected to pursue an extended program at the graduate level specifically arranged to enable them to complete the academic and clinical requirements of the American Speech and Hearing Association (ASHA) for the Certificate of Clinical Competence (CCC). An extended program at the graduate level would encompass the suggested minimal graduate program previously listed as well as additional modifications based upon the student's academic background. Two years of continuous study are usually required to complete an extended graduate level program in speech pathology.

For Master of Arts in Rehabilitation Counseling

Generally the program would take 4 semesters of work to complete, but requirements will be kept flexible and each individual will be aided through advisement process in planning appropriate course work depending upon his background, interest, and professional goals. Students who have had successful employment in a rehabilitation agency or facility or other successful work experience involving individual case study and adjustment of the handicapped may, upon approval of the Department, meet the requirements for supervised clinical practice (internship) for rehabilitation counseling. A minimum of 45 semester hours will be required of all students.

A. Bachelor's degree, preferably Education, Psychology, Sociology, or 1 of the behavioral sciences.

B. Required courses: Education 501, 551, 552, 553, 555; Special Education 461, 505, 506, 507.

C. Additional courses selected to meet the specific needs of students from the following: Education 556; Educational Psychology 440, 442, 541; Social Work 305; Sociology 304; Psychology 306, 445, 447, 450, 573; Special Education 446, 462, 466, 563.

Courses of Instruction

For Undergraduates Only

01. SPEECH THERAPY. No credit. Individual or group therapy for University students with speech and/or hearing problems. Designed to assist students in meeting the criterion of speech proficiency.

For Undergraduates and Graduates

370. INTRODUCTION TO SPEECH PATHOLOGY. 3-4 hours. Introductory course designed to equip the prospective clinician with a working knowledge of the nature and treatment of communicative disorders; communication problems defined in terms of behavior, education, and psychological considerations.

371. SPEECH SCIENCE. 3 hours. Basic course designed to acquaint the student with the physiological, neurological, genetic, and psychological bases of speech and hearing. (Restricted to students in preprofessional speech pathology.)

372. APPLIED PHONETICS. 3 hours. Formation and acoustical characteristics of American English sounds and the phonetic symbols used to represent these sounds; application of this knowledge to pronunciation and speech pathology and practice in phonetic transcription. (Restricted to students in preprofessional speech pathology.)

400. EDUCATION FOR THE SLOW LEARNER. 3 hours. Program development for slow learners in the public school; utilization of diagnostic techniques and various methods of grouping; curriculum and school organization for slow learners at all grade levels; practical application of learning theory principles as applied to slow learners.

410. PRACTICUM, MENTALLY RETARDED. 3 hours. Observation and practice teaching of the educable mentally retarded child; development of use of curriculum materials; institutional visitations; participation in testing, evaluation, team staffing, parental and teacher conferences; and research. Prerequisites: 466, 467.

***446. INTRODUCTION TO THE STUDY OF EXCEPTIONAL CHILDREN.** 3 hours. General introduction to the most common types of physical, mental, and social-emotional deviates, with emphasis on implications for their training or education. Prerequisite: Psychology 101 or Educational Psychology 201. (Same as Psychology 446.)

450. BASIC CLINICAL PRACTICUM. 1-3 hours. Supervised practice in speech therapy with children and adults with communicative disorders on an individual and a group basis. Planning for therapy and evaluation of therapy procedures is basic to clinical work. Prerequisites: 370 and 454, or consent of instructor.

454. ADVANCED SPEECH PATHOLOGY. 3 hours. Communicative disorders strongly oriented toward sensitizing the student to the client's needs as a person and evaluating ways of structuring therapy to meet the client's needs. Prerequisite: 370 or consent of instructor.

455. STUTTERING AND ALLIED DISORDERS. 3 hours. Modern theories and therapies of stuttering, nature, causes, development, diagnosis, and treatment of stuttering. Prerequisite: 454 or consent of instructor.

458. AUDIOMETRY AND AUDIOLOGY. 3 hours. Fundamental principles in the administration and interpretation of individual and group hearing

tests, including practice in the use of the more commonly used tests. Prerequisite: 370 or consent of instructor.

459. HEARING REHABILITATION. 3 hours. Principles of retraining hard-of-hearing children and adults, including the roles of hearing aids, auditory training, speech reading, speech correction, speech counseling. Prerequisite: 370, 458 or consent of instructor.

461. MEDICAL INFORMATION. 3 hours. Anatomy, physiology and pathology of human systems, physical restoration, and adaptation; special emphasis on the educational, social and occupational aspects of injury, somatic and psychogenic disability and the acquiring of facility in basic medical terminology.

462. EDUCATION OF THE PHYSICALLY HANDICAPPED. 3 hours. Techniques and methods of aiding in the growth and development of various types of physically handicapped children; recognition of psychology of physically handicapped; organization of methods and curricula for classroom; implications and interpretation of medical, social, psychological and educational reports and records; understanding effective use of parents and community resources.

463. GENERAL SEMANTICS. 3 hours. Processes of symbolization, abstraction, and evaluation; influence of verbal habits in human affairs; relationship between language and personal and/or social problems; accuracy in the use of verbal symbols.

***464. EDUCATION OF THE MALADJUSTED.** 3 hours. Effective methods in the education of the emotionally disturbed and socially maladjusted; discussion of specific behavior problems; classroom management of the maladjusted; role of social and other agencies in the education of the maladjusted; trends in theory and practice.

465. EDUCATION OF THE BRIGHT AND GIFTED. 3 hours. Philosophy; definitions and identification; research findings; aids to regular classroom teachers, administrators, and special teachers in planning optimum enhancement of education objectives for talented and intellectually superior students.

466. EDUCATION OF THE RETARDED CHILD. 3 hours. Introduction to the education and training of the mentally retarded; types of retardation. Identification and diagnosis of mental retardation; personality development of the retardate; parental reaction to mental retardation; the development of educational programs for the retarded; society's role in programs for the mentally retarded; trends in theory and practice.

467. CURRICULUM AND METHODS FOR THE EDUCABLE MENTALLY RETARDED. 3 hours. Philosophy and aims of the curriculum for the educable mentally retarded; organization and development of the curriculum for the educable mentally retarded; methods of instruction; techniques of instruction; critical evaluation of materials and aids used for instruction of educable mentally retarded.

468. CURRICULUM AND METHODS FOR THE TRAINABLE RETARDED. 3 hours. Curricula, methods of instruction, techniques of instructional materials and aids of value in the training of the trainable mentally retarded. Educational programs in both the public school as well as those in institutions are discussed.

470. METHODS OF SPEECH DIAGNOSIS. 3 hours. Procedures and techniques involved in the diagnosis of communicative disorders; functions of test data, observational data, and data from referral agencies. Observation of

and participation in diagnostic work required. Prerequisite: 454 or consent of instructor.

471. COMMUNICATION THEORIES. 3 hours. Role of spoken communication in social adaptation; relationships of thought, language and expression; language development of the individual; verbal and non-verbal components of the communication situation.

472F. UNITED STATES SPECIAL EDUCATION PROGRAMS. 1-6 hours. Study tours of selected exemplary special education programs in the United States.

473F. FOREIGN SPECIAL EDUCATION PROGRAMS. 1-6 hours. Study tours of selected exemplary special education programs abroad.

For Graduates Only

***500. READING ON THE EXCEPTIONAL CHILD.** 3 hours. Research findings in the areas of the various exceptionalities with emphasis on statistically based research.

***502. ORGANIZATION AND ADMINISTRATION OF CLASSES FOR EXCEPTIONAL CHILDREN.** 3 hours. Problems and procedures in the organization, administration, and evaluation of special classes for the various types of exceptional children in the public school system.

***503. LEARNING DISABILITY.** 3 hours. Characteristics, causal factors, diagnosis, teaching methods and curriculum applicable to children of average intelligence who exhibit minimal brain dysfunction or perceptual difficulties.

504. EVALUATION OF EXCEPTIONAL CHILDREN. 3 hours. Theory, administration, and interpretation of testing devices to assess personal-social adjustment, educational level, intellectual functioning, and sensory deficits in exceptional children. Prerequisite: Educational Psychology 442 or equivalent.

505. REHABILITATION COUNSELING. 3 hours. The rehabilitation process, including a survey of history, principles, philosophy, and legal aspects of rehabilitation and related fields.

506. VOCATIONAL PLACEMENT AND ADJUSTMENT OF THE DISABLED IN REHABILITATION. 3 hours. Theories of vocational choice, labor market and job analysis, job placement, training facilities, and the psychology and sociology of work as they relate to vocational placement problems.

507. INTERNSHIP IN REHABILITATION COUNSELING. 12 hours. An internship that will include supervised practice in a rehabilitation setting. The supervised clinical practice consists of a minimum of 500 clock hours of field work, lasting 1 full semester or approximately 18 weeks.

508. SEMINAR IN SPECIAL EDUCATION: Mental Retardation. 3 hours. Review and critique of current literature. Prerequisite: 446 or consent of instructor.

509. SEMINAR IN SPECIAL EDUCATION: The Emotionally Disturbed. 3 hours. Review and critique of current literature. Prerequisite: 464 or consent of instructor.

510. PARENTS OF EXCEPTIONAL CHILDREN. 3 hours. Review of theory and practice related to consulting with parents of exceptional children.

550. ADVANCED CLINICAL PRACTICUM IN SPEECH THERAPY. 1-3 hours. May be repeated for a maximum of 6 hours. Supervised and directed clinical work with individuals and groups of all age ranges with special emphasis on client-therapist roles and relationships as basic to behavioral change. Minimal requirements include the clinician's assumption of responsibility for

therapy for a complete group session and report writing. Daily staff meetings of all therapists are basic to structuring therapy. Prerequisite: 450 or consent of instructor.

***553. ANATOMY AND PHYSIOLOGY OF THE SPEECH AND HEARING MECHANISMS.** 3 hours. Anatomy, physiology, and neurology of speech and hearing mechanisms including dysfunctions and functions. Prerequisites: 371 and consent of instructor.

554. ADVANCED DIAGNOSTIC PROCESS IN SPEECH PATHOLOGY. 3 hours. Evaluation of communicative disorders emphasizing the role of differential diagnosis, specialized test procedures, and interdisciplinary staffing. Student clinician required to assume progressive responsibility for evaluation, diagnosis, parent/client conference, staffing, and report writing. Prerequisites: 450, 454, 470 or consent of instructor.

***555. SEMINAR IN APHASIA AND RELATED DISORDERS.** 3 hours. Theories and therapies for aphasia and for language retardation or dysfunction in children and adults. Prerequisite: 454 or consent of instructor. (Formerly 469.)

***556. SEMINAR IN STUTTERING.** 3 hours. Causes, development, behavior, and diagnosis of the disorder with particular emphasis on therapeutic procedures. Prerequisites: 454, 455 or consent of instructor. (Formerly 456.)

558. SEMINAR IN ARTICULATION AND DELAYED SPEECH. 3 hours. Special problems of language development and articulation. Prerequisites: 450, 454, and consent of instructor.

***559. COMMUNICATION DISORDERS IN CHILDREN.** 3 hours. Principles of differential diagnosis, therapeutic diagnosis, clinical and classroom habilitation and rehabilitation of children with communicative disorders etiologically associated with neurological impairment, emotional disturbance, environmental deprivation, bilingualism, and mental retardation. Prerequisites: 561 and consent of instructor.

***561. DEVELOPMENT OF LANGUAGE AND SPEECH.** 3 hours. Language growth from the first vocalization to the expression of abstract thought, including a consideration of factors that interrupt or hinder language acquisition; differential diagnoses, therapeutic approaches, and parental counseling are included. Prerequisites: 450, 454, or 470 or consent of instructor.

***563. PSYCHOLOGY OF SPEECH.** 3 hours. Origins of speech and language, the psychological impact of speech and language, and the interrelationships between speech and language and personality. The role of language and speech in group situations, group behavior, and individual behavior is emphasized. (Same as Psychology 564 and Speech 563.) Prerequisites: 450 and 454, or consent of instructor.

***565. ADVANCED CLINICAL TECHNIQUES IN SPEECH THERAPY.** 3 hours. Theory and procedures of play therapy, role-playing, and group dynamics applied to speech therapy. Prerequisites: 450, 454, or 470, or consent of instructor.

***566. OROFACIAL AND LARYNGEAL PATHOLOGIES OF SPEECH.** 3 hours. Speech and vocal problems associated with cleft palate, laryngeal dysfunctions, and facial-maxillary disturbances. Prerequisites: 470, 567, and consent of instructor.

***567. VOICE DISORDERS.** 3 hours. Etiology, symptomatology and therapeutic procedures for disorders of voice. The role of the speech pathologist in relation to other disciplines of the rehabilitation of persons with voice disorders. Prerequisites: 450, 470, and consent of instructor.

568. GROUP SPEECH THERAPY PROCEDURES IN PUBLIC SCHOOL SPEECH THERAPY. 3 hours. Comparison of intensive procedures with intermittent therapy procedures with emphasis on the diversity of group structures applicable to the public school setting. Analysis of differences between group procedures and individual procedures in the public schools in regard to organization, administration, therapy designs, working procedures, and generalization or transfer of learning from the therapeutic situation. Prerequisites: 450, 470, 550, and consent of instructor.

***569. PROBLEMS IN SPECIAL EDUCATION AS APPLIED TO EDUCATION.** 1, 2, or 3 hours. Seminar requiring individual investigation of problems in special education, culminating in a research paper.

***570. SEMINAR IN SPEECH PATHOLOGY.** 3 hours. Reports of research projects, recent developments, current literature and trends. Prerequisite: consent of instructor.

598. THESIS. Maximum, 6 hours.

COLLEGE OF LIBERAL ARTS

DEPARTMENTS

Art

History

Languages

Primary Science

Music

Psychology

Social Sciences

Sociology and Social Work

Speech and Journalism



COLLEGE OF LIBERAL ARTS

GEORGE A. STOKES, *Dean*

REQUIREMENTS FOR THE BACHELOR'S DEGREE

A. General Requirements

1. A minimum of 120 semester hours of academic work, exclusive of physical activity and extra-curricular activity credits.
2. The senior year in residence.
3. A minimum of 30 semester hours in residence.
4. Two quality points (an average grade of C) for each semester hour of credit pursued, including a C average in the major field and a C average in the minor field. Even though a student may have earned some of his credits in other institutions, he still must achieve the minimum average of C on credits earned at Northwestern State University.
5. The completion of a major and a minor, each as defined by the department concerned, except that neither is required in the social work curriculum and no minor is required in the bachelor of music and interior design curricula.

NOTE: early in their University programs students should consult heads of departments in which they are taking their minors.

B. Core Requirements¹

1. Twelve semester hours of oral and written English and literature, including 101 and 102 and at least 3 hours of literature.
2. Six semester hours of mathematics.
3. Twelve semester hours of science, 6 of which must be in a physical science and 6 in a biological science. Sequential courses must be used to satisfy the biological science requirement: Biology 101-101L, 102-102L; 111, 112; or Microbiology 111, 112.
4. Thirteen semester hours of social sciences, including Political Science 450.
5. Twelve semester hours of 1 foreign language.
6. Psychology 101.
7. Health 102 and 4 physical activity credits, including PE 1.²
8. Orientation.

C. Special Requirements

Special requirements are given in the curricula on the following pages. In all these curricula, the special requirements usually duplicate some of the core requirements.

¹Some core requirements do not apply to the bachelor of music or to the bachelor of science in psychology curricula.

²One military science course may be applied for each required physical activity credit, except PE 1.

SOCIAL SCIENCES DEPARTMENT

ANTHROPOLOGY (206)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biological science	3	Biological science	3
English 101	3	English 102	3
Health 102	3	Geology 103-103L	4
Mathematics ¹	3	Mathematics ¹	3
Psychology 101	3	Social science ²	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		17

SOPHOMORE YEAR

Anthropology 201	3	Anthropology 202	3
English	3	English	3
Foreign language	5	Foreign language	5
Geology 104-104L	4	Electives ³	6
Physical education	1		
	16		17

JUNIOR YEAR

Anthropology 301	3	Anthropology 302	3
Anthropology	3	Anthropology	3
Foreign language	3	Social science ²	3
Electives ³	6	Electives ³	6
Physical education	1		
	16		15

SENIOR YEAR

Anthropology	6	Anthropology 408	3
Foreign language or elective ...	3	Anthropology	3
Political Science 450	1	Foreign language or elective ...	3
Electives ³	6	Electives ³	6
	16		15

Total hours for degree, 129.

¹Students who plan to concentrate in archaeology or physical anthropology or pursue a graduate degree in anthropology should take Mathematics 103 and 109.

²Excluding anthropology.

³Electives must be chosen so as to complete a minor as defined by the department concerned.

ART DEPARTMENT

ART (207)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Art 101	3	Art 102	3
Art 103	3	Art 107	3
Art 106	3	Biological science	3
Biological science	3	English 102	3
English 101	3	Health 102	3
Physical Education 1	1	Psychology 101	3
Orientation	1	Physical education	1
	17		19

SOPHOMORE YEAR

Art 200	3	Art 201	3
Art 202	3	Art 209	3
English	3	English	3
Mathematics	3	Mathematics	3
Physical science	3	Physical science	3
Electives ¹	3	Physical education	1
	18		16

JUNIOR YEAR

Art 301	3	Art 308	3
Art 306	3	Art 307	3
Art 350	3	Art 311	3
Foreign language	5	Foreign language	5
Social science	3	Social science	3
Physical education	1		
	18		17

SENIOR YEAR

Art 436	3	Art 430	3
Foreign language	3	Art 437	3
Political Science 450	1	Social science	3
Social science	3	Electives ¹	6
Electives ¹	9		
	19		15

Total hours for degree, 136.

¹Electives must be chosen so as to complete a minor as defined by the department concerned.

ECONOMICS DEPARTMENT

ECONOMICS (217)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Social science	3	Social science	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Psychology 101	3
Biological science	3	Biological science	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

Economics 201	3	Economics 202	3
English	3	English	3
Political Science 201	3	Physical science	3
Physical science	3	Electives ¹	6
Physical education	1	Physical education	1
Elective ¹	3		
	16		16

JUNIOR YEAR

Economics 320	3	Economics 330	3
Economics elective ²	3	Economics elective ²	3
Foreign language	5	Foreign language	5
Electives ¹	6	Political Science 306	3
		Elective ¹	3
	17		17

SENIOR YEAR

Economics elective ²	3	Economics 409	3
Foreign language	3	Electives ¹	12
Political Science 450	1		
Electives ¹	9		
	16		15

Total hours for degree, 130.

¹Electives must be chosen so as to complete a minor as defined by the department concerned.

²Selected from advanced economics courses and may include Social Studies 411.

LANGUAGES DEPARTMENT

ENGLISH (220)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
English 101	3	English 102	3
Biological science	3	Biological science	3
Health 102	3	Mathematics	3
History 201 or 202	3	Speech 101	3
Mathematics	3	Elective ¹	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

English 203	3	English 204	3
Foreign language	5	Foreign language	5
Physical science	3	Physical science	3
Psychology 101	3	Social science	3
Elective ¹	3	Physical education	1
Physical education	1		
	18		15

JUNIOR YEAR

English ²	6	English ²	6
Foreign language	3	Foreign language	3
Political Science 450	1	History 321	3
History 320	3	Elective ¹	3
Elective ¹	3		
	16		15

SENIOR YEAR

English (advanced)	9	English (advanced)	6
Electives ¹	6	Electives ¹	9
	15		15

Total hours for degree, 127.

¹Electives must be chosen so as to complete a minor as defined by the department concerned. At least 15 hours of the free electives must be of junior-senior level.

²Three hours must be selected from 320, 321, 330 or 331.

LANGUAGES DEPARTMENT

FRENCH (221)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
French ¹	5	French ¹	5
Biological science	3	Biological science	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Speech 101	3
Physical Education 1	1	Physical education	1
Orientation	1		
	19		18

SOPHOMORE YEAR

French 203	3	French 204	3
English 203	3	French 205	3
Physical science	3	English 204	3
Social science	3	Physical science	3
Elective ²	3	Social science	3
Physical education	1	Physical education	1
	16		16

JUNIOR YEAR

French 300	3	French 304	3
Psychology 101	3	English 307	3
Social science	3	Political Science 450	1
Electives ²	9	History 322	3
		Social science	3
		Elective ²	3
	18		16

SENIOR YEAR

French (above 200 level)	6	French (above 200 level)	3
Electives ²	9	English 320	3
		Electives ²	9
	15		15

Total hours for degree, 133.

¹Course number to be determined by high school preparation and proficiency of student.

²Electives must be chosen so as to complete a minor as defined by the department concerned. At least 15 hours of the free electives must be of junior-senior level.

SOCIAL SCIENCES DEPARTMENT

GEOGRAPHY (222)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Geography 101	3	Geography 102	3
Social Studies 101	3	Social Studies 102	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Psychology 101	3
Orientation	1	Physical Education 1	1
	16		16

SOPHOMORE YEAR

Geography 201	3	Geography 202	3
Geology 103-103L	4	Geology 104-104L	4
Biological science	3	Biological science	3
English	3	English	3
Electives ¹	3	Electives ¹	3
Physical education	1	Physical education	1
	17		17

JUNIOR YEAR

Geography 305	3	Geography 309	3
Foreign language	5	Geography elective	3
Electives ¹	9	Foreign language	5
Physical education	1	Electives ¹	6
	18		17

SENIOR YEAR

Geography electives	6	Geography elective	3
Foreign language	3	Political Science 450	1
Electives ¹	6	Electives ¹	9
	15		13

Total hours for degree, 129.

¹Electives must be chosen so as to complete a minor as defined by the department concerned.

LANGUAGES DEPARTMENT

GERMAN (224)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
German 101	5	German 102	5
Biological science	3	Biological science	3
English 101	3	English 102	3
Mathematics	3	Mathematics	3
Social science	3	Social science	3
Physical Education 1	1	Physical education	1
Orientation	1		
	19		18

SOPHOMORE YEAR

German 201	3	German 202	3
English 203	3	English 204	3
History 101	3	Health 102	3
Physical science	3	History 102	3
Speech 101	3	Physical science	3
Physical education	1	Physical education	1
	16		16

JUNIOR YEAR

German 301 or 401	3	German 302 or 402	3
English 400	3	German (advanced)	3
Psychology 101	3	English 412 or 413	3
Electives ¹	6	Political Science 450	1
		Electives ¹	6
	15		16

SENIOR YEAR

German 303	3	German 404	3
Electives ¹	12	Electives ¹	12
	15		15

Total hours for degree, 130.

¹Electives must be chosen so as to complete a minor as defined by the department concerned. At least 15 hours of the free electives must be of junior-senior level.

HISTORY DEPARTMENT

HISTORY (232)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
History 101	3	History 102	3
English 101	3	English 102	3
Mathematics	3	Mathematics	3
Biological science	3	Biological science	3
Social science	3	Social science	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

History 201	3	History 202	3
English	3	English	3
Health 102	3	Physical science	3
Physical science	3	Electives ¹	6
Electives ¹	3	Physical education	1
Psychology 101	3		
	18		16

JUNIOR YEAR

History ²	6	History ²	6
Foreign language	5	Foreign language	5
Electives ¹	3	Electives ¹	6
Physical education	1		
	15		17

SENIOR YEAR

History ²	6	History ²	3
Foreign language	3	Electives ¹	12
Political Science 450	1		
Electives ¹	6		
	16		15

Total hours for degree, 130.

¹Electives must be chosen so as to complete a minor as defined by the department concerned.

²To complete a major in history, 21 hours must be chosen in advanced European and American history courses, 9 of which must be in 1 field and 12 in the other.

ART DEPARTMENT

INTERIOR DESIGN (293)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Art 101	3	Art 102	3
Art 103	3	Art 114	3
Art 106	3	English 102	3
Art 113	3	Health 102	3
English 101	3	Psychology 101	3
Physical Education 1	1	Biological science	3
Orientation	1	Physical education	1
	17		19

SOPHOMORE YEAR

Art 201	3	Art 205	3
Art 208	2	Art 209	3
Home Economics 203	3	Art 320	3
Marketing 220	3	English	3
Mathematics	3	Home Economics 313	2
Biological science	3	Mathematics	3
Physical education	1	Physical education	1
	18		18

JUNIOR YEAR

Art history	3	Art history	3
Art 309	2	Art 349	3
Foreign language	5	Art 427	3
Social science	6	Foreign language	5
Speech	3	Social science	3
	19		17

SENIOR YEAR

Art 419	3	Art 425	6
Art 420	3	Art electives	3
Anthropology	3	Physical science	3
Foreign language	3	Electives	3
Physical science	3		
Political Science 450	1		
	16		15

Total hours for degree, 139.

SPEECH AND JOURNALISM DEPARTMENT

JOURNALISM (241)

General

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Journalism 202	3	Journalism 251	3
Biological science	3	Biological science	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Speech 101	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

Journalism 252	3	Journalism 303	3
English	3	English	3
Foreign language	5	Foreign language	5
History 201	3	History 202	3
Physical science	3	Psychology 101	3
	17		17

JUNIOR YEAR

Journalism 298	1	Journalism 298	1
Journalism 401	3	Journalism 410, 415, or 416	3
English 320	3	English 400	3
Foreign language	3	Political Science 202	3
Political Science 201	3	Political Science 450	1
Elective ¹	3	Physical education	1
		Physical science	3
	16		
			15

SENIOR YEAR

Journalism 298 or 299	1	Journalism 305 or 306	3
Journalism 405	3	Journalism	3
Physical education	1	Electives ¹	9
Electives ¹	11		
	16		15

Total hours for degree, 129.

¹Electives must be chosen so as to complete a minor as defined by the department concerned.

SPEECH AND JOURNALISM DEPARTMENT

JOURNALISM (24A)

Advertising

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Journalism 202	3	Journalism 251	3
Biological science	3	Biological science	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Speech 101	3
Physical Education 1	1	Physical education	1
Orientation	1		
	—		—
	17		16

SOPHOMORE YEAR

Journalism 304	3	Journalism 306	3
English	3	English	3
Foreign language	5	Foreign language	5
Physical science	3	Physical science	3
Elective ¹	3	Elective ¹	3
	—		—
	17		17

JUNIOR YEAR

Journalism 345	3	Journalism 351	3
English 320	3	English 400	3
Foreign language	3	History 202	3
History 201	3	Psychology 101	3
Elective ¹	3	Elective ¹	3
Physical education	1	Physical education	1
	—		—
	16		16

SENIOR YEAR

Journalism 352	3	Journalism 405	3
Journalism elective	3	Journalism elective	3
Political Science 201	3	Political Science 202	3
Political Science 450	1	Electives ¹	6
Electives ¹	5		
	—		—
	15		15

Total hours for degree, 129.

¹Electives must be chosen so as to complete a minor as defined by the department concerned.

SPEECH AND JOURNALISM DEPARTMENT

JOURNALISM (24B)

Broadcast News

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Journalism 202	3	Journalism 208	3
Biological science	3	Biological science	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Speech 101	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

Journalism 251	3	Journalism 252	3
English	3	English	3
Foreign language	5	Foreign language	5
Physical science	3	Physical science	3
Speech 102	3	Speech 201	3
	17		17

JUNIOR YEAR

Journalism 303	3	Journalism 304	3
English 320	3	English 400	3
Foreign language	3	History 202	3
History 201	3	Psychology 101	3
Speech 341	3	Speech 345	3
Physical education	1	Physical education	1
	16		16

SENIOR YEAR

Journalism 405	3	Journalism 440	3
Journalism elective	3	Journalism elective	3
Political Science 201	3	Political Science 202	3
Political Science 450	1	Speech electives	6
Speech 321	3		
Electives	2		
	15		15

Total hours for degree, 129.

SPEECH AND JOURNALISM DEPARTMENT

JOURNALISM (24N)

News Editorial

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Journalism 202	3	Journalism 208	3
Biological science	3	Biological science	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Speech 101	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

Journalism 251	3	Journalism 252	3
English	3	English	3
Foreign language	5	Foreign language	5
Physical science	3	Physical science	3
Elective ¹	3	Elective ¹	3
	17		17

JUNIOR YEAR

Journalism 303	3	Journalism 304	3
English 320	3	English 400	3
Foreign language	3	History 202	3
History 201	3	Psychology 101	3
Electives ¹	3	Elective ¹	3
Physical education	1	Physical education	1
	16		16

SENIOR YEAR

Journalism 401	3	Journalism 405	3
Journalism elective	3	Journalism elective	3
Political Science 201	3	Political Science 202	3
Political Science 450	1	Electives ¹	6
Electives ¹	5		
	15		15

Total hours for degree, 129.

¹Electives must be chosen so as to complete a minor as defined by the department concerned.

SPEECH AND JOURNALISM DEPARTMENT

JOURNALISM (24P)

Public Relations

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Journalism 202	3	Journalism 208 or 209	3
Biological science	3	Biological science	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Speech 101	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

Journalism 251	3	Journalism 252	3
English	3	English	3
Foreign language	5	Foreign language	5
Physical science	3	Physical science	3
Elective ¹	3	Elective ¹	3
	17		17

JUNIOR YEAR

Journalism 304	3	Journalism 306	3
English 320	3	English 400	3
Foreign language	3	History 202	3
History 201	3	Psychology 101	3
Elective ¹	3	Elective ¹	3
Physical education	1	Physical education	1
	16		16

SENIOR YEAR

Journalism 401	3	Journalism 420	3
Journalism elective	3	Journalism elective	3
Political Science 201	3	Political Science 202	3
Political Science 450	1	Electives ¹	6
Electives ¹	5		
	15		15

Total hours for degree, 129.

¹Electives must be chosen so as to complete a minor as defined by the department concerned.

DEPARTMENT OF SECONDARY EDUCATION

LIBRARIANSHIP (243)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Library 102	3	Library 201	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Biological science	3
Biological science	3	Speech 101	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

Library 206	3	Library 308	3
English 203	3	English 204	3
Foreign language, modern	5	Foreign language, modern	5
History 201	3	History 202	3
Physical science	3	Physical science	3
Physical education	1	Physical education	1
	18		18

JUNIOR YEAR

Library 316	3	Library 317 or 319	3
Foreign language, modern	3	Library 318	3
Political Science 201	3	Political Science 202	3
Office Administration 101 ¹	(2)	Electives ²	6
Psychology 101	3		
Electives ²	3		
	15		15

SENIOR YEAR

Library 407	3	Library 410	8
Political Science 450	1	Library elective	3
Electives ²	12	Electives ²	7
	16		18

Total hours for degree, 133.

¹This may be waived if typing proficiency is shown.

²Electives must be chosen so as to complete a minor as defined by the department concerned.

MUSIC DEPARTMENT

MUSIC (25A, B or C)

(Bachelor of Arts in Applied Music)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Applied music	2	Applied music	2
Music 105	3	Music 106	3
Music 150	cr.	Music 107	2
English 101	3	Music 150	cr.
Foreign language	5	English 102	3
Music activity ¹	1	Foreign language	5
Physical Education 1	1	Music activity ¹	1
Orientation	1	Physical education	1
	16		17

SOPHOMORE YEAR

Applied music	2	Applied music	2
Music 150	cr.	Music 150	cr.
Music 205	3	Music 206	3
English	3	English	3
Foreign language	3	Health 102	3
Social science	3	Social science	3
Music activity ¹	1	Elective ²	3
Physical education	1	Music activity ¹	1
	16	Physical education	1
			19

JUNIOR YEAR

Applied music	2	Applied music	2
Music 150	cr.	Music 150	cr.
Music 307	3	Music 308	3
Mathematics	3	Mathematics	3
Psychology 101	3	Biological science	3
Biological science	3	Social science	3
Elective ²	3	Elective ²	3
Music activity ¹	1	Music activity ¹	1
	18		18

SENIOR YEAR

Music 150	cr.	Music 150	cr.
Music electives ³	3	Music electives ³	3
Physical science	3	Physical science	3
Social science	3	Electives ²	8
Political Science 450	1		
Electives ²	6		
	16		14

Total hours for degree, 134.

¹Students whose major emphasis is in piano must take 11S, 21S, 31S and 41S (Piano Ensemble) in lieu of 4 music activity electives.²The electives must be chosen so as to complete a minor as defined by the department concerned.³Four semester hours of music electives must be in Applied Music.

MUSIC DEPARTMENT

MUSIC (25A, B or C)

(Bachelor of Music in Applied Music)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Applied major	3	Applied major	3
Piano ¹	2	Piano ¹	2
Music 105	3	Music 106	3
Music 150	cr.	Music 107	2
Ensemble ²	1	Music 150	cr.
English 101	3	Ensemble ²	1
Physical Education 1	1	English 102	3
Orientation	1	Physical education	1
	14		15

SOPHOMORE YEAR

Applied major	3	Applied major	3
Piano ¹	2	Piano ¹	2
Music 150	cr.	Music 150	cr.
Music 205	3	Music 206	3
Ensemble ²	1	Ensemble ²	1
English	3	English or Speech	3
Foreign language ³	5	Foreign language ³	5
Physical education	1	Physical education	1
	18		18

JUNIOR YEAR

Applied major	3	Applied major	3
Music 150	cr.	Music 150	cr.
Music 301	3	Music 302	3
Music 303 or 304	2	Music 308	3
Music 307	3	Music elective	1
Music elective	1	Ensemble ²	1
Ensemble ²	1	Education 401C or	
Elective	2	Music elective ⁴	3
Foreign language ³	3	Elective	2
	18		16

SENIOR YEAR

Applied major and recital	5	Applied major and recital	5
Music 150	cr.	Music 150	cr.
Music 401	3	Music 402	3
Ensemble ²	1	Ensemble ²	1
Political Science 450	1	Music elective	1
Electives	6	Electives	6
	16		16

Total hours for degree, 131.

¹Piano majors must elect an applied music other than piano; others must take Class Piano for 1 semester hour unless they have attained the level of Piano 51.²Piano majors must elect piano ensemble for ensemble credit; others elect ensemble of the applied major.³Voice majors are required to take 2 semesters each in French and German.⁴The music elective must be a 3-hour course in music theory, composition, music history, or music literature.

MUSIC DEPARTMENT

MUSIC (25D)

(Bachelor of Music in Theory and Composition)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Applied major	2	Applied major	2
Applied music ¹	1	Applied music ¹	1
Piano ²	1	Piano ²	1
Music 105 ³	3	Music 106 ³	3
Ensemble	1	Music 107	2
English 101	3	Ensemble	1
Foreign language	5	English 102	3
Physical Education 1	1	Foreign language	5
Orientation	1	Physical education	1
Music 150	cr.	Music 150	cr.
	—		—
	18		19

SOPHOMORE YEAR

Applied major	2	Applied major	2
Applied music ¹	1	Applied music ¹	1
Piano ²	1	Piano ²	1
Music 205 ³	3	Music 206 ³	3
Ensemble	1	Ensemble	1
English	3	English or Speech	3
Foreign language	3	Elective ⁴	3
Physical education	1	Physical education	1
Elective ⁴	3	Music 150	cr.
Music 150	cr.		—
	—		—
	18		15

JUNIOR YEAR

Applied major	2	Applied major	2
Piano ²	2	Music 302	3
Music 301	3	Music 306	2
Music 305	2	Music 308	3
Music 307	3	Music 303 or 304	2
Music elective ⁵	2	Music elective ⁵	2
Ensemble	1	Ensemble	1
Social science	3	Social science	3
Music 150	cr.	Music 150	cr.
	—		—
	18		18

(Continued)

MUSIC DEPARTMENT

MUSIC (25D)

(Theory and Composition) Continued

SENIOR YEAR

Applied major	2	Applied major	2
Music 401	3	Music 402	3
Music 405	3	Music electives ⁵	6
Music 407	3	Music 450	2
Ensemble	1	Ensemble	1
Political Science 450	1	Music 150	cr.
Elective ⁴	3		
Music 150	cr.		
	16		14

Total hours for degree, 136.

¹Must include 1 semester each in woodwind, brass, percussion and string instruments.²Pianists may take additional credit hours in piano or elect other applied courses.³A student must earn a minimum "B" average in Music 105, 106, 205, and 206 in order to qualify as a candidate for this degree.⁴Six semester hours of electives must be selected from 1 of the following: mathematics, biological science, or physical science.⁵Music electives should be selected from the following: Music 403, 404, 406, 408, or 409.

SOCIAL SCIENCES DEPARTMENT

POLITICAL SCIENCE (225)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Social science	3	Social science	3
Biological science	3	Biological science	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Psychology 101	3
Physical Education I	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

Political Science 201	3	Political Science 202	3
English	3	English	3
Foreign language	5	Foreign language	5
Physical science	3	Physical science	3
Elective ¹	3	Elective ¹	3
Physical education	1	Physical education	1
	18		18

JUNIOR YEAR

Political Science 301	3	Political science ²	3
Political Science 309	3	Political Science 401	3
Foreign language	3	Electives ¹	9
Electives ¹	6		
	15		15

SENIOR YEAR

Political science ²	6	Political science ²	6
Political Science 450	1	Foreign language or elective ...	3
Foreign language or elective ...	3	Electives ¹	6
Electives ¹	6		
	16		15

Total hours for degree, 130.

¹Electives must be chosen so as to complete a minor as defined by the department concerned.

²To complete a major, 15 semester hours must be selected, 3 of which must be in political theory and the remainder distributed between American and international studies with 9 hours in 1 area and 3 in the other.

PSYCHOLOGY DEPARTMENT

PSYCHOLOGY (265)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biological science	3	Biological science	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Psychology 101	3
Social science	3	Psychology 111	1
Physical Education 1	1	Elective ¹	3
Orientation	1	Physical education	1
	17		17

SOPHOMORE YEAR

English (literature)	3	English (literature)	3
Chemistry or Physics	3	Chemistry or Physics	3
Psychology elective	3	Psychology elective	3
Social science	3	Social science	3
Elective ¹	3	Elective ¹	3
Physical education	1	Physical education	1
	16		16

JUNIOR YEAR

Computer science or Foreign language ²	3-5	Computer science or Foreign language ²	3-5
Psychology 440	3	Psychology 441	3
Psychology elective	3	Psychology 445 or 447	3
Social science	3	Electives ¹	7-5
Electives ¹	5-3		
	17		16

SENIOR YEAR

Computer science or Foreign language ²	3	Computer science or elective ...	3
Psychology 443	3	Psychology 448	3
Psychology elective	3	Electives ¹	9
Political Science 450	1		
Electives ¹	6		
	16		15

Total hours for degree, 130.

¹Electives must be chosen so as to complete a minor as defined by the department concerned.

²Each student must earn either 12 semester hours in computer science or 12 in a single foreign language.

SOCIAL SCIENCES DEPARTMENT

SOCIAL SCIENCE: GENERAL PROGRAM¹ (271)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Social science	3	Social science	3
Biological science	3	Biological science	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Psychology 101	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

Social science	6	Social science	6
English	3	English	3
Physical science	3	Physical science	3
Elective ²	3	Elective ²	3
Physical education	1	Physical education	1
	16		16

JUNIOR YEAR

Social science	6	Social science	9
Foreign language	5	Foreign language	5
Electives ²	6	Elective ²	3
	17		17

SENIOR YEAR

Social science	6	Social science	6
Foreign language	3	Electives ²	9
Political Science 450	1		
Electives ²	6		
	16		15

Total hours for degree, 130.

¹The general program requires 45 semester hours involving a cross-section of anthropology, economics, geography, history, philosophy, political science, sociology and social studies, in which there will be a minimum of 12 hours in 1 subject.

²Electives must be chosen so as to complete a minor as defined by the department concerned.

SOCIOLOGY AND SOCIAL WORK DEPARTMENT

SOCIAL WORK (272)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Social Studies 101	3	Sociology 101	3
Sociology 100	1	Biological science	3
Biological science	3	English 102	3
English 101	3	Mathematics	3
Health 102	3	Psychology 101	3
Mathematics	3	Physical education	1
Physical Education 1	1		
Orientation	1		
	18		16

SOPHOMORE YEAR

History 201	3	History 202	3
Political Science 201	3	Political Science 202	3
Sociology 202	3	Social Work 303	3
English	3	English	3
Office Administration 101 ¹	2	Office Administration 102 ¹	2
Physical science	3	Physical science	3
Physical education	1	Physical education	1
	18		18

JUNIOR YEAR

Economics 201	3	Sociology 400	3
Sociology 306	3	Social Work 305	3
Sociology 405	3	Foreign language	5
Foreign language	5	Electives	6
Elective	3		
	17		17

SENIOR YEAR

Social Work 407	3	Social Work 409	3
Social Work 418	3	Social Work 419	3
Economics 205 or elective	3	Electives	9
Political Science 450	1		
Foreign language	3		
Elective	3		
	16		15

Total hours for degree, 135.

¹Students who present 1 or more high school units in typing may substitute an elective with the consent of the adviser.

SOCIOLOGY AND SOCIAL WORK DEPARTMENT

SOCIOLOGY (273)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Social science	3	Sociology 101	3
Sociology 100	1	Biological science	3
Biological science	3	English 102	3
English 101	3	Mathematics	3
Health 102	3	Psychology 101	3
Mathematics	3	Physical education	1
Physical Education 1	1		
Orientation	1		
	18		16

SOPHOMORE YEAR

Sociology 202	3	Social science	3
English	3	English	3
Physical science	3	Physical science	3
Electives ¹	6	Electives ¹	6
Physical education	1	Physical education	1
	16		16

JUNIOR YEAR

Sociology 304	3	Sociology 306	3
Sociology 405	3	Sociology 412	3
Foreign language	5	Foreign language	5
Electives ¹	6	Electives ¹	6
	17		17

SENIOR YEAR

Sociology 400	3	Sociology 416	3
Sociology 408	3	Sociology ²	6
Foreign language	3	Electives ¹	6
Political Science 450	1		
Electives ¹	6		
	16		15

Total hours for degree, 131.

¹The electives must be chosen so as to complete a minor as defined by the department concerned.

²Chosen from sociology or anthropology.

LANGUAGES DEPARTMENT

SPANISH (274)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Spanish 101	5	Spanish 102	5
Biological science	3	Biological science	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Speech 101	3
Physical Education 1	1	Physical education	1
Orientation	1		
	19		18

SOPHOMORE YEAR

Spanish 201	3	Spanish 202	3
English 203	3	English 204	3
History 101	3	History 102	3
Physical science	3	Physical science	3
Psychology 101	3	Physical education	1
Physical education	1	Elective ¹	3
	16		16

JUNIOR YEAR

Spanish 306	3	Spanish 307	3
Spanish 310	3	Spanish 311 or 312	3
English 307	3	English (advanced)	3
History 331	3	History 332	3
Political Science 450	1	Philosophy 201	3
Elective ¹	3		
	16		15

SENIOR YEAR

Spanish (400 level)	6	Spanish 421	3
Electives ¹	9	English (advanced)	3
		Electives ¹	9
	15		15

Total hours for degree, 130.

¹Electives must be chosen so as to complete a minor as defined by the department concerned. At least 15 hours of free electives must be of junior-senior level.

SPEECH AND JOURNALISM DEPARTMENT

SPEECH (276)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Speech 101	3	Speech 102	3
Biological science	3	Biological science	3
English 101	3	English 102	3
Health 102	3	Mathematics	3
Mathematics	3	Elective ¹	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

Speech 205 or 301	3	Speech 201	3
Speech 231 or 232	3	English	3
English	3	Foreign language	5
Foreign language	5	Physical science	3
Physical science	3	Psychology 101	3
Physical education	1	Physical education	1
	18		18

JUNIOR YEAR

Speech 321	3	Speech	3
Foreign language	3	Political Science 450	1
Social science	3	Social science	3
Electives ¹	6	Electives ¹	9
	15		16

SENIOR YEAR

Speech 351 or 353	3	Speech	3
Speech	3	Social science	3
Social science	3	Electives ¹	9
Electives ¹	6		
	15		15

Total hours for degree, 130.

¹Electives must be chosen so as to complete a minor as defined by the department concerned.

PROFESSIONAL CURRICULA¹**(Degree and Non-Degree Programs)****PRE-LAW (258)**

All students who expect to enter law school after attending Northwestern State University should maintain contact with the pre-law adviser in the Department of Social Sciences regardless of their majors and in addition to any other advisers. Since a high level of undergraduate academic performance is necessary for admission to law school, the pre-law adviser is prepared to offer special information and counseling to students and will work with the student's adviser and the deans of the colleges of Liberal Arts and Business in these respects.

Most law schools prefer a bachelor's degree for admission. Law schools admitting students without an undergraduate degree require 3 years of undergraduate work outside the College of Education. However, preference is usually given to those applicants holding a degree because the likelihood of their success in law school is greater.

1. Degree programs:

- a. **Four-Year Program:** Students who desire to earn a degree before entering law school may do so by completing any appropriate curriculum. The pre-law adviser will furnish information about majors, minors, and courses which are acceptable to and/or required by law schools.
- b. **Three-Year Program:** A student who enters law school at the end of 3 years may apply, after successful completion of the first year of law school, for credit not to exceed 30 semester hours of electives toward a degree at Northwestern State University. In order to be eligible to apply for a degree, he must have completed all requirements in 1 of the appropriate and standard 4-year curricula in the College of Liberal Arts including a major and a minor, and a total of not less than 130 semester hours. Students desiring to receive a degree in 1 of the curricula in the College of Business should consult the dean of the College of Business when they begin their program to secure approval of a 3-year course of study.

2. Non-degree program: For pre-law students who do not intend to complete an undergraduate degree, the following 3-year course of study is advised:

Social science courses: Social Studies 101, 102, 303; Political Science 201, 202, 309, 3-hour political science elective; History 201, 202; Economics 201, 202; Geography 305; Sociology 101, 202; Philosophy 203.

Other courses: English 101, 102, 203, and 204; foreign language, 12 hours; mathematics, 6 hours; physical education activity, 4 hours; physical science, 6 hours; biological science, 6 hours; Speech 101; electives, 6 hours, selected from Economics 311, Business Economics 325, 326, Speech 201, political science.

Total: 100 semester hours.

PRE-MINISTERIAL TRAINING (260)

Students who desire a degree as preparation for professional ministerial training will find several curricula adaptable to their purpose. The various curricula in the social sciences and the languages are especially suitable if the major is in 1 of the fields and the minor in the other.

¹The general core requirements do not apply to non-degree programs.

ART

ORVILLE J. HANCHEY, *Professor and Department Head*

Professor: Harper:

Assistant Professors: Coke, Murphy, Roberts, Thorn;

Instructor: Trussell

Curricula

Undergraduate Requirements

ART

For a major (Liberal Arts): 101, 102, 103, 106, 107, 200, 201, 202, 209, 301, 306, 307, 308, 311, 350, 430, 436, 437—54 semester hours.

For a major (Education): 101, 102, 103, 106, 107, 200, 201, 205, 207, 209, 304, 350, 424, 6 hours of art history, and 3 hours of electives in the special phase of art chosen by the student—48 semester hours.

For a minor (except Education): at least 18 semester hours, including 101, 103, 106, 107.

For a minor (Education): 101, 102, 103, 106, 107, 201, 207, 304, at least 3 hours in art history, and 3 hours of art electives—30 semester hours.

ADVERTISING DESIGN

For a major (Business): 101, 102, 103, 106, 107, 111, 112, 201, 205, 209, 210, 212, 308, 310, 325, 350, 403, 406, 430, 6 hours of art history, and 3 hours of electives in the special phase of art chosen by the student—66 semester hours.

Special requirements: Marketing 221, 382.

INTERIOR DESIGN

For a major (Liberal Arts): 101, 102, 103, 106, 113, 114, 201, 205, 208, 209, 309, 320, 349, 419, 420, 425, 427, 6 hours of art history, and 3 hours of electives in the special phase of art chosen by the student—61 semester hours.

Special requirements: anthropology; Home Economics 203, 313; Marketing 220.

For a major (Education): 101, 102, 103, 113, 114, 205, 208, 309, 320, 419, 425, 427; Home Economics 101, 203, 301, 302, 305 or 408, 310, 313, 412, 413, 416 — 66 semester hours.

Special requirements: anthropology; Marketing 220, 221. This curriculum does not prepare for teacher certification.

SENIOR EXHIBITION

Graduating seniors will be required to demonstrate studio competence by presenting an exhibition for faculty committee evaluation. Specific areas of deficiency will require additional study. Representative selections will be retained in the permanent collection of the Department.

Graduate Requirements for the Master of Arts

Undergraduate preparation for a major: an undergraduate major as defined by Northwestern State University or its equivalent; preliminary evaluation by the art faculty.

Special requirements: thesis plus 30 semester hours distributed as follows: 12 hours representing 4 different studio areas; 6 hours of art history; 3 hours of graduate seminar; 6 hours of art electives; 3 hours of approved electives outside the Art Department.

For the Master of Education in Secondary Teaching

Special requirements: Art 517 or Education 628, and 12 hours chosen from Art 406, 408, 410, 411, 414, 436, 437, 501, 508, 511, and 3 hours of electives in the area of concentration or in education.

Courses of Instruction

For Undergraduates Only

101.¹ DESIGN I. 3 hours. Foundation for all arts through theory and application of 2-dimensional creative expression; media and materials, demonstrations, discussions, lectures. Open to all students. Lecture 1 hour, laboratory 4 hours.

102.¹ DESIGN II. 3 hours. Individual expression through utilization of 3-dimensional techniques (assemblage, modeling, elementary casting, carving); experimentation with various materials to solve 3-dimensional problems (wood, wire, plaster, plaster clay, light metal). Lecture 1 hour, laboratory 4 hours. Prerequisite: 101 or consent of instructor.

103.¹ ART THEORY. 3 hours. Introduction to the visual arts. Terminology, structure, philosophy and theory of art; concepts, media, and design. Prerequisite for art majors to all courses numbered 200 or above. Open to all students.

106.¹ DRAWING I. 3 hours. Understanding visual organization and structure expression by means of delineation and modeling; introduction to various drawing media. Lecture 1 hour, laboratory 4 hours.

107.¹ DRAWING II. 3 hours. Continuation of 106. Lecture 1 hour, laboratory 4 hours.

108. DESIGN III. 3 hours. Principles of arrangement and elements of structure applied to specific problems; designed for home economics majors. Lecture 1 hour, laboratory 4 hours.

111.¹ COMMERCIAL ART I. 3 hours. Transformation of merchandising ideas into graphic presentations emphasizing rapid, spontaneous illustrations and lettering; rendering in soft pencil, graphite, and pastels. Lecture 1 hour, laboratory 4 hours.

112.¹ COMMERCIAL ART II. 3 hours. Typography, styles, and measurement; lettering forms; lettering as a design element in layout. Lecture 1 hour, laboratory 4 hours. Prerequisite: 111.

113. DRAWING III. 3 hours. Development of technical competence in relation to basic draftsmanship, applied to forms in interior design. Emphasis on projection drawing and perspective. Lecture 1 hour, laboratory 4 hours.

114. DRAWING IV. 3 hours. Continuation of 113 with emphasis on transfer of technical competence to visual competence in relation to interior design. Lecture 1 hour, laboratory 6 hours.

200. CERAMICS I. 3 hours. Elementary ceramic design; hand-building and wheel-throwing of pottery; techniques of decoration, glazing, and firing. Laboratory 6 hours. Prerequisites: 101, 102, or consent of instructor.

201. PAINTING I. 3 hours. Problems of design and representation; development of pictorial composition through the various techniques and media for visual expression. Lecture 1 hour, laboratory 4 hours. Prerequisites: 101, 102 or consent of instructor.

¹Minimum grade of "C" required of art majors.

202. DRAWING V. 3 hours. Emphasis on individual creative expression in still-life and landscape studies. Lecture 1 hour, laboratory 4 hours. Prerequisite: 107.

203. DRAWING VI. 3 hours. Continuation of 202. Lecture 1 hour, laboratory 4 hours.

204. ART EDUCATION I. 3 hours. Laboratory experience with various media and techniques suitable for use in the elementary grades; educational implications and associated problems. Lecture 1 hour, laboratory 4 hours.

205. PAINTING II. 3 hours. Watercolor painting; emphasis on transparent watercolor techniques. Lecture 1 hour, laboratory 4 hours. Prerequisite: 201.

206. CERAMICS II. 3 hours. Techniques of mold making, casting, and ceramic sculpture; clays and glazes, their working and firing characteristics; kiln operation. Laboratory 6 hours. Prerequisite: 200.

207. CRAFTS. 3 hours. Basic survey of elementary crafts. Intended primarily for education or special education majors or other students having little or no previous training in art. Lecture 1 hour, laboratory 4 hours.

208. INTERIOR DESIGN I. 2 hours. Fundamentals of good taste in interior decoration. Lecture and laboratory problems stressing the elements and principles of interior design, floor plans, furniture arrangements, backgrounds, and accessories in the home. Drawing and color theory are related to the problems. Laboratory 4 hours. Prerequisite: 101 or 108 or consent of instructor.

209. DESIGN IV. 3 hours. Further study in the relation of the principles of design to creative expression in relation to 2-dimensional problems in various design media. Lecture 1 hour, laboratory 4 hours. Prerequisites: 101, 102.

210. COMMERCIAL ART III. 3 hours. Practical course in lettering, posters, layout, display; practical experience with various materials and methods. Designed for majors and advertising design students. Lecture 1 hour, laboratory 4 hours. Prerequisites: 112 or 102 and 107.

212. COMMERCIAL ART IV. 3 hours. Continuation of 210; emphasis on theoretical and practical experience in relation to modern procedure. Lecture 1 hour, laboratory 4 hours. Prerequisite: 112 or 210.

250. FABRIC DESIGN. 3 hours. Creative and imaginative designs evolving from natural, historical, microscopic, and man-made sources. Lecture 1 hour, laboratory 4 hours. Prerequisites: 101, 102, or 108.

300. CERAMICS III. 3 hours. Continuation of 206. Laboratory 6 hours. Prerequisite: 206.

301. PAINTING III. 3 hours. Advanced problems in pictorial organization executed in oils, watercolor, lacquers; study of media and methods for best stimulating individual expression. Lecture 1 hour, laboratory 4 hours. Prerequisite: 201.

302. DRAWING VII. 3 hours. Drawing from the model; varied media with advanced problems and experimentation with drawing materials. Lecture 1 hour, laboratory 4 hours. Prerequisite: 203.

303. DRAWING VIII. 3 hours. Continuation of 302. Lecture 1 hour, laboratory 4 hours.

304. ART EDUCATION II. 3 hours. Children's art and its relationship to their normal healthy mental, emotional, creative growth; proper

media and methods of stimulation at various stages of development; problems of evaluation. Offered in spring only.

305. PAINTING IV. 3 hours. Continuation of 301; emphasis on the relation of form and expression in painting. Lecture 1 hour, laboratory 4 hours. Prerequisite 301.

306. ART HISTORY I. 3 hours. Survey of art history from pre-historic art through medieval art.

307. ART HISTORY II. 3 hours. Survey from the Renaissance through contemporary trends.

308. DESIGN V. 3 hours. Introduction to sculpture: experience with a variety of materials and techniques for 3-dimensional expression. Lecture 1 hour, laboratory 4 hours. Prerequisite: 209.

309. INTERIOR DESIGN II. 2 hours. Continuation of 208, emphasizing the floor plan with its furnishings in relation to the elevations which form the background for the furnishings. Problems are presented graphically in various media. Laboratory 4 hours. Prerequisite: 208.

310. COMMERCIAL ART V. 3 hours. Display techniques and package design; representational and abstract forms combined with lettering to achieve the dramatic presentation of a product or an idea using cardboard, papier-mache, decorative papers, and theatrical fabrics. Lecture 1 hour, laboratory 4 hours. Prerequisite: 210.

311. SCULPTURE I. 3 hours. Theory and techniques of sculpture; plaster modeling, bronze and aluminum casting, welded forms, wood carving, and constructions. Lecture 1 hour, laboratory 4 hours. Prerequisite: 308.

312. SCULPTURE II. 3 hours. Continuation of 311. Lecture 1 hour, laboratory 4 hours.

318. DESIGN VI. 3 hours. Continuation of 308; introduction to design related to function. Lecture 1 hour, laboratory 4 hours.

319. DESIGN VII. 3 hours. Continuation of 318; emphasis on design related to function. Lecture 1 hour, laboratory 4 hours.

320. CONTEMPORARY AND PERIOD FURNITURE. 3 hours. Survey of contemporary and period styles of furniture, and other minor arts in relation to the modern home.

321. PAINTING V. 3 hours. Advanced pictorial organization executed in oils; experimentation with visual forms to determine best methods for individual expression. Lecture 1 hour, laboratory 4 hours. Prerequisite: 305.

325. PAINTING VI. 3 hours. Advanced problems in pictorial organization executed in acrylic media; emphasis on currently acceptable standards of stylization. Lecture 1 hour, laboratory 4 hours. Prerequisites: 205 and 201.

326. CERAMICS IV. 3 hours. Advanced form, original glaze formulation; kiln operation. Laboratory 6 hours. Prerequisite: 300.

330. DRAWING IX. 3 hours. Advanced problems in visual organization and structural expression; emphasis on the preparation of various media for metal point, and pen and ink drawing. Laboratory 6 hours. Prerequisites: 202 and 203.

333. DRAWING X. 3 hours. Continuation of 330; emphasis on the selection of media appropriate to individual expression. Laboratory 6 hours. Prerequisite: 330.

337. CREATIVE CRAFTS. 3 hours. Laboratory experience in the de-

sign and construction of functional art in a variety of materials. Contemporary crafts in our environment. Lecture 1 hour, laboratory 4 hours. Prerequisites: 101, 102, 103, or consent of instructor.

349. INTERIOR DESIGN III. 3 hours. Continuation of 309; designs of interiors using both traditional and contemporary styles; emphasis on the complete problem of the structure as a whole. Lecture 1 hour, laboratory 4 hours. Prerequisite: 309.

350. GRAPHICS I. 3 hours. Basic printmaking techniques emphasizing a degree of technical proficiency. Primarily relief and intaglio processes executed in black and white. Lecture 1 hour, laboratory 4 hours. Prerequisites: 106 and 107.

400. GRAPHICS II. 3 hours. Continuation of 350. Emphasis on relief and intaglio color printing. Lecture 1 hour, laboratory 4 hours. Prerequisite: 350.

405. PAINTING MEDIA AND MATERIALS. 2 hours. Media and technical application in relation to the work of the old masters and students' work; painting in egg-tempera, oils, casein, and gouache on various backgrounds and textures prepared by the student. Laboratory 4 hours.

419. INTERIOR DESIGN IV. 3 hours. Planning of residential, commercial and institutional interiors, in regard to architectural features and construction. Lecture 1 hour, laboratory 4 hours. Prerequisite: 349.

420. PROBLEMS IN INTERIOR DESIGN. 3 hours. Independent study of specific interior design problems of a thesis type including work drawings. Prerequisite: consent of instructor.

421. GRAPHICS III. 3 hours. Advanced techniques and processes in woodcut, wood engraving, silk-screen; line engraving, dry point, aquatint, soft ground, lift ground, collagraphy. Lecture 1 hour, laboratory 4 hours. Prerequisite: 400.

424. ART EDUCATION IV. 3 hours. Materials and techniques for teaching art in the secondary schools. Open only to art majors in the College of Education. Laboratory 6 hours.

425. INTERIOR DESIGN PRACTICUM. 6 hours. Studio instruction and practical experience in planning and executing decoration of interiors, with careful study of the decorator's problems. Prerequisites: 419, Home Economics 310 or 313. (Same as Home Economics 425.) (Supervised by the Department of Home Economics.)

430. SENIOR EXHIBITION. 3 hours. Presentation of a professional exhibition of creative work representing all media required in the student's curriculum, emphasizing his chosen area of specialization. Prerequisite: graduating senior.

For Undergraduates and Graduates

403.¹ ADVANCED STUDIO PROBLEMS I. 3 or 6 hours. Selection and execution of a series of projects in a chosen area; ceramics, commercial art, crafts, design, graphics, painting, sculpture. Laboratory 6 hours. Prerequisite: consent of instructor.

404. ART EDUCATION III: MATERIALS AND TECHNIQUES. 3 hours. Individual laboratory experience with a variety of materials and techniques adaptable for use in the elementary and secondary schools. Lecture 1 hour, laboratory 4 hours.

406.¹ ADVANCED STUDIO PROBLEMS II. 3 or 6 hours. Selection and execution of a series of projects in a chosen area; ceramics, commercial art,

¹If 6 hours are to be taken during 1 semester, they must be divided between 2 areas of study.

crafts, design, graphics, painting, sculpture. Laboratory 6 hours. Prerequisite: consent of instructor.

408. DESIGN VII. 3 hours. Advanced problems in design; abstract and representational interpretation executed in a variety of media; individual projects of interest. Lecture 1 hour, laboratory 4 hours.

410. CONTEMPORARY ART. 3 hours. Review of late 19th century trends in art; art movements of the 20th century. Prerequisite: 307.

411. ARTS AND CRAFTS. 3 hours. Problems in various craft fields; ceramics, ensembling, print-making, silk-screen, and 3-dimensional projects. Lecture 1 hour, laboratory 4 hours. Prerequisite: consent of instructor.

412. SCULPTURE III. 3 hours. Continuation of 312. Laboratory 6 hours.

413. ADVANCED PAINTING I. 3 hours. Application of logical principles and elements of art to creative abstract painting in various media. Laboratory 6 hours. Prerequisites: 201, 301.

414. PAINTING AND DRAWING FOR TEACHERS. 3 hours. Painting and drawing procedures, media, and techniques adaptable to teaching in the elementary and secondary grades. Lecture 1 hour, laboratory 4 hours. Prerequisite: 204 or 404 or consent of instructor.

416. PROBLEMS IN TEACHING ART IN THE ELEMENTARY GRADES. 3 hours. Problems in art education planned to meet the particular needs of the student in teaching art at different grade-levels in the elementary school. Lectures and class discussion. Individual research problems dealing with various phases of art education chosen by the student with aid of the instructor. Prerequisite for graduate students: 404 or equivalent.

417. PROBLEMS IN TEACHING ART IN THE SECONDARY GRADES. 3 hours. Problems in art education planned to meet the particular needs of the student in teaching art in the secondary schools. Individual research problems dealing with the various phases of art education chosen by the student with aid of the instructor. Prerequisite: consent of instructor.

422. GRAPHICS IV. 3 hours. Advanced printmaking, stressing personal experimentation with mixed media, appropriate to individual pursuits. Refinement of technical competence and proficiency. Laboratory 6 hours. Prerequisite: 421.

426. CERAMIC SCULPTURE. 3 hours. Media and techniques of ceramic sculpture. Laboratory 6 hours. Prerequisites: 200, 209 or 308.

427. AMERICAN ART. 3 hours. Art in the English colonies and the United States from the 17th century to the present.

433. ANCIENT NEAR EASTERN ART. 3 hours. Art of the ancient Near East and neighboring civilizations. Prerequisite: 306.

434. CLASSIC ART. 3 hours. Architecture, sculpture, and painting of Aegean, Mycenaean, Greek, Etruscan, and Roman civilizations. Prerequisite: 306.

435. MEDIEVAL ART. 3 hours. Architecture, sculpture, and painting from early Christian through late Gothic art. Prerequisite: 306.

436. ART OF THE ITALIAN RENAISSANCE. 3 hours. The major arts in Italy from the 13th century through the High Renaissance; emphasis on sculpture and painting. Prerequisite: 307.

437. MOVEMENTS IN NINETEENTH CENTURY ART. 3 hours. Developments in art from Romanticism through Impressionism to Symbolism. Prerequisite: 307.

438. INTRODUCTION TO RESEARCH IN THE HISTORY OF ART. 3 hours. Readings, discussions, and reports designed for beginning graduate students and art majors. Prerequisites: 306, 307.

440. COMMERCIAL ART VI. 3 hours. Planning and executing a complete advertising program for an original product design. Lecture 1 hour, laboratory 4 hours.

445. ADVANCED WATERCOLOR. 3 hours. Further experimentation with watercolor as a medium. Lecture 1 hour, laboratory 4 hours. Prerequisites: 205 and consent of instructor.

446. CERAMICS V. 3 hours. Clays, glazes, computations, and measurements for the artist potter. Lecture 2 hours, laboratory 2 hours. Prerequisite: consent of instructor.

452. SEMINAR IN CREATIVITY. 3 hours. Theories in creativity, its measurement, and its implications for education in the elementary and secondary schools. (Same as Education 494.)

For Graduates Only

501. ADVANCED PAINTING II. 3 or 6 hours. Development of the student's understanding of contemporary trends; advanced research and laboratory practice in painting problems. Laboratory 6 hours. Prerequisites: 301, 325, or equivalent.

508. PROBLEMS IN DESIGN. 3 or 6 hours. Investigation of an area involving advanced work in design-related subjects. Prerequisite: consent of instructor.

510. PROBLEMS IN ADVERTISING DESIGN. 3 or 6 hours. Investigation of a specific area. Prerequisite: consent of instructor.

511. PROBLEMS IN CRAFTS. 3 or 6 hours. In-depth exploration in the laboratory and through literature of craft activities selected in consultation with the instructor. Consultation 1 hour, laboratory 4 hours.

513. SCULPTURE IV. 3 or 6 hours. Comprehensive exploration in a specialized direction of personal significance. Prerequisite: 412 or equivalent.

517. SEMINAR IN ART EDUCATION. 3 hours. Major theories of art education since John Dewey; survey of current trends and movements; pertinent factors in evaluation and formulation of personal philosophy. Lecture-discussion 3 hours. Prerequisite: 416 or 417.

522. GRAPHICS V. 3 or 6 hours. Comprehensive exploration in a specialized direction of personal significance. Prerequisite: 422 or equivalent.

524. SPECIAL PROBLEMS IN ART. 3 or 6 hours. Designed to provide the student an opportunity to work with a member of the faculty in special advanced studio problems.

526. PROBLEMS IN CERAMICS. 3 or 6 hours. Individual problems in ceramics arranged in consultation with the instructor. Lecture 1 hour, laboratory 4 hours. Prerequisites: 426, consent of instructor.

546. RESEARCH IN ART HISTORY. 3 or 6 hours. Intensive research in a selected area of art history. Prerequisite: consent of instructor.

590. SEMINAR. 3 hours. Discussion of contemporary trends and developments in art; investigation of studio or theoretical problems.

598. THESIS. Maximum, 6 hours.

HISTORY

DONALD M. RAWSON, *Professor and Department Head*

Associate Professors: LeBreton, Wells; Assistant

Professors: McCorkle, Poe, Porter, Taylor.

Undergraduate Requirements

Required for a major (Liberal Arts): 101, 102, 201, 202, and 21 hours of advanced European and American history courses, 9 of which must be in 1 field and 12 in the other—33 semester hours. Other requirements: social sciences, 6 hours.

Required for a minor (except Education): 101, 102, 201, 202, and 6 additional hours — 18 semester hours.

Graduate Requirements for the Master of Arts

Undergraduate preparation for a major in history: 33 semester hours in the social sciences, including 15 hours of history, demonstrated proficiency in French or German, or 12 semester hours of undergraduate credit or the equivalent in 1 of these languages;¹ demonstrated proficiency in the use of English, to be determined by examination not later than a student's first semester in residence.

Special requirements for a major in history: History 598, 12 semester hours of advanced history, including 501 and at least 1 3-hour seminar in history.

Undergraduate preparation for a minor in American or European history: 18 semester hours in the social sciences, including 12 hours of appropriate history.

Special requirements for a minor in history: 12 semester hours of history selected from advanced history courses.

Courses of Instruction

For Undergraduates Only

101. EARLY WORLD CIVILIZATION. 3 hours. World civilization from the earliest human cultures to 1648; emphasis on the contributions of the Romans and the Christian Church, feudalism and the rise of national states, the Renaissance and Reformation. (Formerly 203.)

102. MODERN WORLD CIVILIZATION. 3 hours. World civilization since 1648; emphasis on mid-19th century revolution; nationalism and political reorganization; social, economic and cultural developments; commercial rivalry and colonial expansion; the system of alliances, wars and readjustments. (Formerly 204.)

201. HISTORY OF THE UNITED STATES. 3 hours. Colonial foundations; movement for independence; early years of the Republic; national growth and expansion; sectionalism and the Civil War. Prerequisite: sophomore standing, or consent of instructor.

202. HISTORY OF THE UNITED STATES. 3 hours. Reconstruction; industrial expansion and related problems; imperialism; World War I and aftermath; depression and New Deal; World War II; the United States since the war. Prerequisite: sophomore standing or consent of instructor.

For Undergraduates and Graduates

305. HISTORY OF AFRICA. 3 hours. African history from earliest civilization to the 20th century, emphasizing Sub-Saharan Africa with attention given to the kingdoms of the Western Sudan, European beginnings in Africa,

¹A student desiring to meet the foreign language requirement in another language may do so in unusual cases with the permission of his committee.

the rise of colonialism and imperialism, and the emergence of the former colonies as 20th century national states. Prerequisites: 101, 102.

309. ANCIENT HISTORY. 3 hours. Civilization from the beginnings in Egypt and Babylonia to the collapse of the Roman Empire. Prerequisite: 101.

310. MEDIEVAL HISTORY. 3 hours. Europe from the breakup of the Roman Empire in the west to the Renaissance. Prerequisite: 101.

311. THE RENAISSANCE AND REFORMATION. 3 hours. Europe from mid-thirteenth century through the Thirty Years' War, emphasizing the changing economic and political structure and the intellectual and social impact of the Renaissance and of the Protestant Revolt and counter Reformation. Prerequisites: 101, 102.

312. HISTORY OF EUROPE (1640-1815). 3 hours. Wars of religion and the English revolutions; the age of Louis XIV; the Enlightenment; the French Revolution and Napoleon. Prerequisites: 101, 102.

313. HISTORY OF EUROPE (1815-1870). 3 hours. Europe at the end of the Napoleonic era; the Congress of Vienna and the Congress system; revolutions of 1830 and 1848; the unification of Italy and Germany. Prerequisites: 101, 102.

316. HISTORY OF EUROPE (1870-1918). 3 hours. Growth of alliances; economic and political imperialism; World War I and its origins. Prerequisites: 101, 102.

318. TWENTIETH CENTURY EUROPE. 3 hours. Principal domestic policies; diplomacy, economic and cultural causes and effects of major political events; emphasis upon trends and developments in Europe since 1918. Prerequisites: 101, 102.

320. HISTORY OF ENGLAND TO 1689. 3 hours. Formation of the English people and nation; early legal and constitutional development; the struggle between king and parliament; beginning of overseas expansion to the Glorious Revolution. Prerequisites: 101 and 102 or consent of instructor.

321. HISTORY OF ENGLAND SINCE 1689. 3 hours. Consolidation of constitutional evolution; economic, political, and social revolutions of the 18th and 19th centuries; colonialism and the emergence of the Commonwealth of Nations; British role in international affairs of the 20th century. Prerequisites: 101 and 102 or consent of instructor.

322. HISTORY OF FRENCH CIVILIZATION AND CULTURE. 3 hours. Insight into French thought and institutions through study of the major social and political conditions obtaining throughout major periods of French history. (Scheduled only by arrangement with Department of Languages.) Prerequisites: 101 and 102 or consent of instructor.

323. HISTORY OF RUSSIA TO 1900. 3 hours. Russian history from its beginning to the 1905 Revolution; growth of intellectual and revolutionary intelligentsia. Prerequisites: 101 and 102 or consent of instructor.

324. HISTORY OF RUSSIA SINCE 1900. 3 hours. Russian history from the 1905 Revolution to the present; organization and functioning of the Soviet system. Prerequisites: 101 and 102 or consent of instructor.

331. LATIN AMERICA (1492-1825). 3 hours. The Colonial Period; general survey emphasizing the Indian civilizations, the Spanish colonial empire, and the revolutions for independence. Prerequisite: consent of instructor.

332. LATIN AMERICA (1826-present). 3 hours. The National Period; general survey of the political, social, and economic history of the Latin American republics; their relationships to one another and to the United States. Prerequisite: consent of instructor.

401. AMERICAN ECONOMIC HISTORY. 3 hours. Commercial, agricultural, industrial, and imperial movements and developments in the economic advance of the United States. Prerequisites: 201, 202.

402. AMERICAN DIPLOMATIC HISTORY (1776-1898). 3 hours. Events, men, and principles in relation to the periods of the American Revolution, Napoleonic Wars, expanding nationalism, Civil War, Reconstruction and rising imperialism. Prerequisites: 201, 202.

403. AMERICAN DIPLOMATIC HISTORY (1898-present). 3 hours. Development of the United States as a world power, and of its role in the search for permanent peace; emphasis on Pan-Americanism, World Wars I and II, the abandonment of isolationism and the challenges since 1945. Prerequisites: 201, 202.

408. SPECIAL PROBLEMS. 1-3 hours. Prerequisites: major or minor in history; senior standing; consent of instructor.

410. MILITARY HISTORY. 3 hours. United States at war from colonial times to the present; the interrelationship of political, economic, social, and military factors; battles and leaders. Prerequisites: 201, 202.

420. HISTORY OF LOUISIANA. 3 hours. Discovery and exploration of Louisiana; French and Spanish colonial administration; early American period and emergence as a Southern state with emphasis on Louisiana's role in the antebellum South, Civil War, and Reconstruction; emergence of modern Louisiana.

421. OLD SOUTH AND CIVIL WAR. 3 hours. Old South; sections of the U.S. in 1860 compared and contrasted; major campaigns, battles, and leaders of the War; domestic and foreign events related to the War. Prerequisites: 201, 202.

422. THE CONTEMPORARY SOUTH. 3 hours. South in the Nation; individualism of the region and its component parts; intensification of economic, social, and political problems since the Civil War. Prerequisites: 201, 202.

425. THE AMERICAN WEST. 3 hours. Advancement of the Western Frontier from 1783 to 1890; special emphasis on Indian administration, fur trade, mining activities, and cattle industry; role of the West in the development of American institutions. Prerequisites: 201, 202.

431. COLONIAL AMERICA (1492-1754). 3 hours. Discovery, exploration, and founding of the American colonies; colonial administration; development of American political and social institutions; intercolonial struggles for North America. Prerequisite: 201.

432. REVOLUTIONARY AMERICA (1754-1783). 3 hours. French and Indian War, the British imperial system; the Revolutionary War, its causes and results. Prerequisite: 201.

433. THE EARLY AMERICAN REPUBLIC (1783-1836). 3 hours. United States from the Revolution to 1836; the period of confederation; the constitution; political, economic, and social developments culminating in the election of Jackson to the presidency. Prerequisites: 201, 202.

434. AMERICAN EXPANSION AND SECTIONAL CONFLICT (1837-1865). 3 hours. United States in mid-19th century; territorial expansion; political, economic, and social conflicts leading to the War Between the States. Prerequisites: 201, 202.

435. AMERICA IN TRANSITION (1865-1919). 3 hours. Reconstruction and the New South; emergence of modern industrialism; organization of farmers and laborers; the Progressive movement; neutrality; World War I and the Treaty of Versailles. Prerequisites: 201, 202.

436. THE UNITED STATES SINCE 1919. 3 hours. American history since World War I; the Republican era of the 1920's; the Great Depression; the New Deal; World War II; the Cold War and contemporary developments. Prerequisites: 201, 202.

441. AMERICAN SOCIAL HISTORY. 3 hours. Evolution of American social practices and institutions from the first settlements until the present, with emphasis on the changing types, forms and functions of religion, education, music, fine arts and architecture, law, medicine and public health, science and invention, and social reform. Prerequisites: 201 and 202 or consent of instructor.

442. AMERICAN INTELLECTUAL HISTORY. 3 hours. Major cultural agencies and ideas transplanted from Europe to colonial America; effect of the New World environment upon Old World ideas; principal systems of thought about man, God, nature and society which have influenced the course of American history. Prerequisites: 201 and 202 or consent of instructor.

For Graduates Only

501. HISTORIOGRAPHY. 3 hours. Historical literature and philosophies the Western World; emphasis on the American scene and the techniques of historical writing. Prerequisites: 201 and 202 and consent of instructor.

502. PRIMARY SOURCES IN AMERICAN HISTORY. 3 hours. Our national development based upon analysis of original accounts, basic documents, and other primary sources; evaluation of materials from which history books are written. Prerequisite: 501 or consent of instructor.

503. SEMINAR IN DIPLOMATIC HISTORY OF UNITED STATES. 3 hours. Prerequisite: consent of instructor.

510. AMERICAN BIOGRAPHY. 3 hours. Representative Americans, their personalities, principles, policies, and influence on national and world thought and progress. Prerequisites: 201, 202.

520. SEMINAR IN LOUISIANA HISTORY. 3 hours. Prerequisite: consent of instructor.

532. SEMINAR IN EARLY AMERICAN HISTORY. 3 hours. Prerequisite: consent of instructor.

534. SEMINAR IN MIDDLE PERIOD AMERICAN HISTORY. 3 hours. Prerequisite: consent of instructor.

535. SEMINAR IN CIVIL WAR AND RECONSTRUCTION. 3 hours. Prerequisite: consent of instructor.

536. SEMINAR IN RECENT AMERICAN HISTORY. 3 hours. Prerequisite: consent of instructor.

598. THESIS. Maximum, 6 hours.

611. SEMINAR IN SEVENTEENTH CENTURY EUROPE. 3 hours. Prerequisite: consent of instructor.

612. SEMINAR IN EIGHTEENTH CENTURY EUROPE. 3 hours. Prerequisite: consent of instructor.

613. SEMINAR IN NINETEENTH CENTURY EUROPE. 3 hours. Prerequisite: consent of instructor.

618. SEMINAR IN TWENTIETH CENTURY EUROPE. 3 hours. Prerequisite: consent of instructor.

620. SEMINAR IN ENGLISH HISTORY. 3 hours. Prerequisite: consent of instructor.

632. SEMINAR IN LATIN AMERICAN HISTORY. 3 hours. Prerequisite: consent of instructor.

LANGUAGES

WALTER L. MOSLEY, *Associate Professor and Department Head*

Associate Professors: Morokoff, Robert, Schroeder; *Assistant Professors:* R. Brodermann, Demeule, Fletcher, Hatley, J. Johnson, Kirkconnell, Mitchell, Nesom, Olson, Smith, Stringer, E. Webber, Wertelaers; *Instructors:* N. Brodermann, Cameron, Doherty, Ingram, A. Johnson, McInnis, Melder, Torgrimson, O. Webber.

ENGLISH

Cameron, Doherty, Fletcher, Hatley, Ingram, A. Johnson, J. Johnson, McInnis, Melder, Mitchell, Morokoff, Mosley, Nesom, Robert, Smith, Stringer, Torgrimson, E. Webber, O. Webber.

Undergraduate Requirements

For a major (Liberal Arts): 101, 102, 203, 204, plus 27 hours of advanced courses with 3 hours selected from 320, 321, 330, or 331—39 semester hours.

Special requirements: History 201 or 202, 320, 321; Speech 101; 16 hours in one foreign language.

For a major (Education): 101, 102, 203, 204, 309, 310, 320, 321, 400 or 411, plus 9 hours of advanced courses — 36 semester hours.

Special requirements: History 201 or 202 and 320 or 321; Speech 101; 16 hours in one foreign language.

For a concentration in preprofessional speech pathology, a student may pursue a major in English Education as above and the other requirements described in the curriculum sheets of the College of Education.

For a minor: 101, 102, 203, 204, 320 or 321; 12 semester hours of advanced courses, at least 3 selected from 400, 411, or 413 — 27 semester hours.

Graduate Requirements

A. Master of Arts—English Major

1. Undergraduate preparation: an undergraduate major of at least 27 semester hours of English; credit in 6 semester hours of a foreign language on the sophomore level (usually French or German).
2. Required courses: English 580, 598.
3. Other requirements:
 - a. qualifying examination to be taken no later than the student's second semester and for which the student must register with the Department of Languages no later than the third week of the semester in which the examination is to be taken. If the examination is unsatisfactory, it may be taken once more no later than 1 calendar year after the first examination.
 - b. a thesis.
 - c. reading proficiency in a foreign language if the student does not meet the requirements in foreign languages described as undergraduate preparation.
 - d. satisfactory performance in an oral comprehensive examination emphasizing his thesis subject and course work.

B. Master of Arts—English Minor

1. Undergraduate preparation: 24 semester hours of English.
2. Course requirements: 12 semester hours of English at the 400 and 500 level.

C. Master of Arts in Education—English Major

1. Undergraduate preparation: an undergraduate major of at least 27 semester hours of English.
2. Required courses: English 580 and 3 hours in linguistics. The total course requirement is at least 30 hours. No thesis is required.

3. Other requirements:
 - a. qualifying examination as described under the requirements for the Master of Arts.
 - b. satisfactory written and oral comprehensive examination.
 - c. 2 years of a foreign language or reading proficiency in a foreign language (usually French or German) or English 501.
- D. Master of Arts in Education—English Minor
 1. Undergraduate preparation: 24 semester hours of English.
 2. Course requirements: 12 semester hours of English at the 400 and 500 level.

Courses of Instruction

For Undergraduates Only

001. ENGLISH AS A FOREIGN LANGUAGE. 3 hours. Conversation, reading, grammar, and composition presented as a foreign language. Required of all students who have not received their secondary education in the continental United States of America, unless they are excused by the Adviser to Foreign Students. Five hours a week.

Note: Upon completion of this course the student will be assigned to such a course in English as suits his competence (002, 101, or 102). If he is allowed to omit English 101, English 001 will be considered as fulfilling the requirements in English 101.

002. ENGLISH AS A FOREIGN LANGUAGE. 3 hours. Continuation of English 001. Five hours a week.

Note: upon completion of this course the student will be assigned to such a course in English as suits his competence (101, 102 or 203).

Note: placement in Freshman English is based on objective tests and a written theme. One, 2, or 3 courses in Freshman English may be required. Students who are assigned to English 100 will add 3 hours to their degree requirements.

Courses must be taken progressively. Credit for 6 hours of Freshman English is required of each student, 3 of which must be in 102. If a student given advanced placement completes his initial English Course with a grade of "C" or higher, he will also be given credit for 101 or 101 and 102. The grade earned in the initial course will be assigned to the pre-empted course or courses.

100. BASIC COMPOSITION AND GRAMMAR. 3 hours. A refresher course: practice in short units of writing and drill in the fundamentals of grammar, punctuation, and spelling.

101. COMPOSITION AND RHETORIC I. 3 hours. The short paper; a study of rhetoric with analyses of reading selections.

101H. COMPOSITION AND RHETORIC I—HONORS. 3 hours. Open to students qualified by ACT scores and writing proficiency.

102. COMPOSITION AND RHETORIC II. 3 hours. Writing the research article and other fairly long papers; study of rhetoric, diction, and style; analysis and interpretation of collateral readings.

102H. COMPOSITION AND RHETORIC II—HONORS. 3 hours. Open to students on the basis of placement scores or recommendation from teachers of English 101.

203.¹ SURVEY OF ENGLISH LITERATURE. 3 hours. English literature from the beginning to Wordsworth.

204.¹ SURVEY OF ENGLISH LITERATURE. 3 hours. English literature from Wordsworth to the 20th century.

205.¹ MAJOR BRITISH WRITERS. 3 hours. Literary masterpieces of England.

206.¹ MAJOR AMERICAN WRITERS. 3 hours. Important authors from Irving to Hemingway and Faulkner.

207.¹ MAJOR WRITERS IN WORLD LITERATURE. 3 hours. Readings from Homer to Cervantes exclusive of English and American literature.

300. PROBLEMS IN COMMUNICATION. 3 hours. Diagnosis and treatment of individual difficulties in written and oral communication. Taught jointly by members of the departments of Languages and Speech and Journalism. Credit in this course adds 3 hours to degree requirements. Prerequisites: junior standing and recommendation by dean and adviser, or consent of instructor. (Same as Speech 300.)

306. THE SHORT STORY. 3 hours. Technique; critical values, extensive readings from earliest times to the present; classics; current magazines.

307. LATIN AND GREEK LITERATURE IN TRANSLATION. 3 hours. Mythology and English translation of Greek and Latin masterpieces; philosophy and style of these representatives of the ancient world and their contributions to modern thinking and writing. No knowledge of Greek and Latin is required.

308. CONTEMPORARY AMERICAN ESSAY. 3 hours. Essays appearing in leading U.S. periodicals; reading, discussion, writing; adjustments to meet individual needs.

309. AMERICAN LITERATURE. 3 hours. American literature from the beginning to the Civil War.

310. AMERICAN LITERATURE. 3 hours. American literature from the Civil War to the present.

320. THE CONTEMPORARY ENGLISH LANGUAGE. 3 hours. Structure and syntax of the English language as it is spoken and written today.

321. ADVANCED COMPOSITION. 3 hours. Reading and analysis of modern literature; discovery and development of individual talent for writing. (Formerly 305).

330. CREATIVE WRITING I. 3 hours. Reading and analysis of student's short stories and poetry. Encouragement and direction given to those with literary talent. Prerequisite: consent of instructor.

331. CREATIVE WRITING II. 3 hours. Continuation of 330 with emphasis on longer and more complex forms of poetry and fiction. Prerequisite: consent of instructor.

Note: no more than 6 hours of credit in advanced writing courses may be counted toward a degree.

340. GREEK DRAMA. 3 hours. Aeschylus, Sophocles, Euripides, Aristophanes.

367. THE FOLK BALLAD. 3 hours. Literary and entertainment values of European and American balladry from medieval times to the present. Prerequisite: consent of department head. (Not open to English majors and minors in Education.)

¹All sophomore courses in English required in any curriculum must be taken before entry into an advanced English course.

Note: no student may substitute speech, dramatics, or debate for a required English course in any curriculum.

For Undergraduates and Graduates

400. HISTORY OF THE ENGLISH LANGUAGE. 3 hours. Development of the language; changes since the Anglo-Saxon period leading to present-day usages and vocabulary. (Formerly 301).

411. AN INTRODUCTION TO LINGUISTICS. 3 hours. Historical, geographical, and structural linguistics. (Formerly 312).

412. ENGLISH LITERATURE TO 1500 EXCLUSIVE OF CHAUCER. 3 hours.

413. CHAUCER. 3 hours.

417. SHAKESPEARE'S COMEDIES. 3 hours.

418. SHAKESPEARE'S TRAGEDIES. 3 hours.

422. NON-DRAMATIC LITERATURE OF THE RENAISSANCE. 3 hours. Lyric and epic poetry, especially the English sonnet; various prose forms, history, essays, fiction.

425. SEVENTEENTH CENTURY. 3 hours. Survey in the prose and poetry with emphasis on the literary "schools" of Ben Jonson and John Donne.

426. MILTON. 3 hours.

427. RESTORATION AND EIGHTEENTH CENTURY DRAMA. 3 hours. Wycherley, Congreve, Sheridan, and others.

428. DRYDEN, POPE, AND SWIFT. 3 hours.

429. THE JOHNSON CIRCLE. 3 hours. Johnson, Boswell, Goldsmith, Reynolds, and others.

431. THE ROMANTICS I. 3 hours. Emphasis on Wordsworth and Coleridge.

432. THE ROMANTICS II. 3 hours. Emphasis on Byron, Shelley, Keats.

433. VICTORIAN POETRY AND PROSE. 3 hours. (Formerly 40C).

435. THE ENGLISH NOVEL TO 1832. 3 hours. From the beginning to Scott.

436. THE ENGLISH NOVEL SINCE 1832. 3 hours. From Scott to the modern period.

437. MODERN DRAMA. 3 hours. Trends in dramatic literature based on works of outstanding dramaturgists from Ibsen to the present. (Same as Speech 437.)

439. MODERN POETRY. 3 hours. Major figures of American and British poetry: Eliot, Yeats, Auden, and others. (Formerly 410).

440. THE MODERN BRITISH NOVEL. 3 hours. Major figures from Conrad, Forster, Woolfe, Joyce to Graham Greene and Evelyn Waugh.

441. CONTEMPORARY POETRY. 3 hours. Major figures and significant schools in present-day English and American poetry, e.g., Creeley, Snyder, Durrell.

442. LITERARY CRITICISM. 3 hours. Plato to the present; emphasis on British criticism.

448. HISTORY OF DRAMA. 3 hours. Outstanding dramatists of Western world from the Greeks to Eugene O'Neill, with emphasis on the evolving philosophy and structure of dramatic literature. (Formerly 314).

453. THE RENAISSANCE IN AMERICAN LITERATURE. 3 hours. American literature from Irving and Cooper through Whitman with emphasis upon Emerson, Thoreau, Poe, Hawthorne, Melville, and Whitman. (Formerly 313).

457. THE AMERICAN NOVEL TO 1900. 3 hours.

459. THE MODERN AMERICAN NOVEL. 3 hours.

463. THE BEGINNINGS OF SOUTHERN LITERATURE. 3 hours. Development of Southern literature to 1920, with emphasis on the plantation novel, the early Southwestern humorists, the folk literature of the South, and the distinctive characteristics of the Southern mind. (Formerly 419).

465. THE SOUTHERN RENAISSANCE. 3 hours. Flowering of literary culture in the South from 1920 to the present, with emphasis on the fiction of William Faulkner, the Agrarian movement, Southern poetry, and present trends in Southern writing. (Formerly 420).

467. REGIONALISM AND FOLKLORE IN AMERICAN LITERATURE. 3 hours.

485. NINETEENTH CENTURY RUSSIAN LITERATURE. 3 hours. Major works of Pushkin, Gogol, Turgenev, Schedrin, Dostoevsky, Tolstoy, and Chekhov in translation; studies in the literary milieu and development of 19th century Russian social criticism.

486. TWENTIETH CENTURY RUSSIAN LITERATURE. 3 hours. Works of Pushkin, Ilf, Petrov, Blok, Majakovsky, Gorky, Bunin, Kuprin, Andreev, Sholokhov, and Pasternak in translation. Special attention is given to the literary and critical movements: symbolism, futurism, formalism, and socialist realism.

490. MODERN CONTINENTAL NOVEL. 3 hours. Novels of Proust, Joyce, Mann, Hesse, Sartre, Dostoevsky and others. (Formerly 414).

494. ANGLO-IRISH LITERATURE. 3 hours. Background and development of the Irish literary renaissance. Emphasis on major figures such as Yeats, Joyce, Synge, Lady Gregory, A.E., O'Casey, Flann O'Brien.

For Graduates Only

The specific field of study in the following courses is determined by the instructor. Texts and subjects are changed at the discretion of the instructor.

501. OLD ENGLISH. 3 hours.

510. STUDIES IN MEDIEVAL LITERATURE. 3 hours.

515. STUDIES IN THE RENAISSANCE. 3 hours.

520. STUDIES IN THE SEVENTEENTH CENTURY. 3 hours.

525. STUDIES IN THE EIGHTEENTH CENTURY. 3 hours.

530. STUDIES IN THE NINETEENTH CENTURY. 3 hours.

535. STUDIES IN THE TWENTIETH CENTURY. 3 hours.

540. STUDIES IN AMERICAN LITERATURE I. 3 hours.

545. STUDIES IN AMERICAN LITERATURE II. 3 hours.

550. PROBLEMS IN LITERARY CRITICISM. 3 hours.

555. PROBLEMS IN CREATIVE WRITING. 3 hours.

580. BIBLIOGRAPHY AND LITERARY RESEARCH. 3 hours.

590. SPECIAL PROBLEMS IN RESEARCH. 1-4 hours. A maximum of 3 hours of credit may be applied toward a degree.

598. THESIS. Maximum, 6 hours.

FRENCH¹

Demeule, Wertelaers

For a major (Liberal Arts): 34 semester hours, or 24 hours above the 100 level, including 203, 204, 205, 300, 304, and 9 hours above the 200 level. Other requirements: English 203, 204, 307, 320; History 322; Speech 101.

For a major (Education): 36 semester hours or 26 hours above the 100 level, including 203, 204, 205, 300, 304, 499, and 9 hours above the 200 level. Other requirements: English 203, 204, 307; History 322; Speech 101.

For a minor (except Education): 22 semester hours.

For a minor (Education): 28 semester hours, 18 above the 100 level.

For a minor with a major in another foreign language: 22 semester hours at the college level.

Courses of Instruction

For Undergraduates Only

101. INTRODUCTION TO FRENCH. 5 hours. Essentials of grammar, vocabulary building, drill on basic idioms; drill on formation and recognition of tenses; reading in French with stress on oral and aural comprehension; translation into French and English. Designed for beginners. Lecture 4 hours, laboratory 2 hours.

102. INTRODUCTION TO FRENCH. 5 hours. Continuation of 101. Emphasis on formation and recognition of verb tenses; speed and accuracy of translation; idioms necessary for intelligent reading; aural and oral comprehension; translation into French and English. Lecture 4 hours, laboratory 2 hours.

201. INTERMEDIATE READING. 3 hours. Selected prose readings in French. Emphasis on rapid and accurate translation and on vocabulary building.

203. ADVANCED GRAMMAR. 3 hours. Systematic study and application of principles of grammar. Special emphasis on all tenses, irregular verbs, idioms, special problems of vocabulary. Designed for majors and minors.

204. ADVANCED GRAMMAR. 3 hours. Continuation of 203. Emphasis on style, diction, and written composition. Designed for majors and minors.

205. INTRODUCTION TO FRENCH LITERATURE. 3 hours. Selected passages from French authors which are mature in style and meaningful in content, involving all aspects of French civilization and culture. Designed for all students of French to develop rapid reading and interpretation of the written language and an appreciation of style and content.

299. DIRECTED READING. 1-4 hours. For some transfer students who have scheduling difficulties. Prerequisite: consent of department head.

300. THE SHORT STORY. 3 hours. Development and techniques of the short story in France beginning with writers of the middle of the 19th century to contemporary writers of the 20th century.

302. CONVERSATION AND COMPOSITION. 3 hours. Vocabulary, oral practice, aural comprehension; class reading and discussion of selected topics; memorization of selected poems.

304. PHONETICS. 3 hours. Analysis of separate sounds with oral practice in class, oral readings for intonation and rhythm; drill in phonetic transcription and reading.

¹No credit is given for less than a year of a foreign language, full credit being given for each additional course of 1 semester. The requirement of a foreign language in any department must be completed in 1 language.

403. SEVENTEENTH CENTURY CLASSICAL DRAMA. 3 hours. Classical movement in French literature with special emphasis on the theatre and the plays of Corneille, Racine, and Moliere.

404. NINETEENTH CENTURY DRAMA. 3 hours. Literary movements within the theatre from the beginning of the Romantic Movement to the end of the century (1827-1920).

405. THE NOVEL. 3 hours. Development of the novel in France, and the reading of novels of the 19th and 20th centuries (1850-1920).

406. HISTORY OF LITERATURE. 3 hours. French literature from its earliest times through the 18th century; collateral readings and reports in French.

407. HISTORY OF LITERATURE. 3 hours. French literature of the 19th and 20th centuries; collateral readings and reports in French.

408. THE NOVEL. 3 hours. The contemporary novel in French and the reading of the best works by eminent novelists (1920 to present).

409. TWENTIETH CENTURY FRENCH DRAMA. 3 hours. Literary movements within the theatre from the beginning of the 20th century to the present.

499. PROBLEMS IN FOREIGN LANGUAGE INSTRUCTION. 2 hours. A 12-week introduction to special problems of the foreign language instructor; use of the foreign language laboratory, the audio-visual-lingual approach, integration of speaking and reading and other related problems.

For Undergraduates and Graduates

471. APPLIED LINGUISTICS—ELEMENTARY SCHOOL TEACHERS. 3 hours. Intensive study of the language in its natural environment.

472. APPLIED LINGUISTICS—ELEMENTARY SCHOOL TEACHERS. 3 hours.

For Graduates Only

500. FUNDAMENTALS OF READING FRENCH. 3 hours. Intensive review of grammatical and rhetorical principles and of basic vocabulary necessary for reading fluency. Credit earned from this course cannot be counted toward the completion of any degree.

GERMAN¹

Kirkconnell, Schroeder

For a major (Liberal Arts): 31 semester hours, including 101, 102, 201, 202, 301 or 401, 302 or 402, 303, 404. Other requirements: English 203, 204, 400, 412 or 413; History 101, 102; Speech 101

For a major (Education): 33 semester hours, including 101, 102, 201, 202, 301 or 401, 302 or 402, 303, 404, 499. Other requirements: English 203, 204, 400, 412 or 413; History 101, 102; Speech 101.

For a minor (except Education): 22 semester hours.

For a minor (Education): 28 semester hours.

Courses of Instruction

For Undergraduates Only

101. INTRODUCTION TO GERMAN. 5 hours. Vocabulary building and fundamentals of grammar; reading of simple prose; written exercises, pronunciation, dictation, memory work; oral and aural practice; some attention

¹No credit is given for less than a year of a foreign language, full credit being given for each additional course of 1 semester. The requirement of a foreign language in any department must be completed in 1 language.

to an understanding of German civilization. Open to students with no high school German. Lecture 4 hours, laboratory 2 hours.

102. ELEMENTARY READING. 5 hours. Continuation of 101. Intensive reading of easy literary selections; review of grammar; memorization of poems and songs; collateral reading of modern German authors. Prerequisite: 101 or consent of instructor. Lecture 4 hours, laboratory 2 hours.

103. GERMAN GRAMMAR. 3 hours. Special course for science majors whose programs of study prevent scheduling of regular foreign language courses. Fall semester. Prerequisites: permission of heads of Department of Languages and science department in which student is registered.

104. GERMAN GRAMMAR. 3 hours. Continuation of 103. Spring semester. Prerequisites: permission of heads of Department of Languages and science department in which student is registered.

201. READINGS IN PROSE AND POETRY. 3 hours. Literary selections of moderate difficulty. Prerequisite: 102 or consent of department head.

202. SCHILLER. 3 hours. Reading and interpretation of *Wilhelm Tell*, both as literature and as an expression of democratic aspirations for freedom. Prerequisite: 201 or consent of department head.

203. SCIENTIFIC AND TECHNICAL GERMAN. 3 hours. Reading in German science, technology, and literary and historical criticism. Especially recommended for prospective graduate students in any field. Prerequisite: 201 or consent of department head.

204. NINETEENTH CENTURY DRAMA. 3 hours. Dramatic literature of the period. Rapid reading and interpretation of masterpieces selected from the work of Kleist, Anzengruber, Grillparzer, Hebbel, Hauptmann, and others. Papers and written reports. Prerequisite: 201 or consent of department head.

299. DIRECTED READING. 1-4 hours. For some transfer students who have scheduling difficulties. Prerequisite: consent of department head.

Note: the minimum prerequisite for all 300 and 400 courses is 2 years of college German or 4 years of high school German or consent of instructor.

301. LITERARY PROSE. 3 hours. Extensive readings from short stories, prose, drama, and novels; lectures on German literature.

302. GOETHE. 3 hours. Reading and interpretation of *Faust*; lectures on German literature.

303. CONVERSATIONAL GERMAN. 3 hours. Elementary conversation, composition, and grammar. Prerequisite: 202 or 203, or consent of instructor.

401. ADVANCED LITERARY PROSE. 3 hours. Intensive readings from short stories, novels, and prose drama. Prerequisite: 301 or consent of instructor.

402. GERMAN POETRY. 3 hours. Intensive and extensive reading of selections from various types of poetry.

403. ADVANCED SCIENTIFIC AND TECHNICAL GERMAN. 3 hours. Individual conferences; extensive reading in books and periodicals related to the student's major interest. Prerequisites: 203 and consent of instructor.

404. ADVANCED CONVERSATIONAL GERMAN. 3 hours. Advanced conversation, composition, and grammar with a view to enabling the student to converse easily in German. Prerequisites: 301, 302, or 303, or consent of instructor.

499. PROBLEMS IN FOREIGN LANGUAGE INSTRUCTION. 2 hours. A 12-week introduction to special problems of the foreign language instructor; use of the foreign language laboratory, the audio-visual-lingual approach, integration of speaking and reading and other related problems.

For Graduates Only

500. FUNDAMENTALS OF READING GERMAN. 3 hours. Intensive review of grammatical and rhetorical principles and of basic vocabulary necessary for reading fluency. Credit earned in this course cannot be counted toward the completion of any degree.

RUSSIAN¹

For Undergraduates Only

101. ELEMENTARY RUSSIAN. 5 hours. Fundamentals of grammar with some conversation; reading of scientific Russian.

102. ELEMENTARY RUSSIAN. 5 hours. Continuation of 101.

201. INTERMEDIATE RUSSIAN. 3 hours. Emphasis on reading, especially scientific literature; continued practice in conversation. Prerequisites: 101, 102.

202. INTERMEDIATE RUSSIAN. 3 hours. Continuation of 201.

299. DIRECTED READING. 1-4 hours. For some transfer students who have scheduling difficulties. Prerequisite: consent of department head.

SPANISH¹

N. Brodermann, R. Brodermann

For a major (Liberal Arts): 101, 102, 201, 202, 306, 307, 310, 311 or 312, 421, and 6 hours of advanced Spanish—37 semester hours.

Other requirements: English 203, 204, 307, and 6 hours of advanced English; History 101, 102, 331, 332; Philosophy 201; Speech 101.

For a major (Education): 101, 102, 201, 202, 306, 307, 308, 310, 311 or 312, 499, and 3 hours in 400-level courses—36 semester hours.

Other requirements: History 331, 332; Speech 101.

For a minor (except Education): at least 20 semester hours, excluding 101.

For a minor (Education): 26 semester hours, excluding 101, and including 306, 307, 308.

Courses of Instruction

For Undergraduates Only

101. INTRODUCTION TO SPANISH. 5 hours. Audio-lingual approach to the language, with a minimum of formal grammar and special emphasis on conversation, supplemented by drill in the language laboratory.

102. ELEMENTARY SPANISH. 5 hours. Audio-lingual approach to the language is continued, supplemented by drill in the language laboratory.

201. INTERMEDIATE SPANISH. 3 hours. Audio-lingual approach to the language is continued, supplemented by drill in the language laboratory. Reading material of moderate difficulty is introduced.

202. INTERMEDIATE SPANISH READING. 3 hours. Continued reading with discussions in Spanish. Review of the basic principles of grammar.

299. DIRECTED READING. 1-4 hours. For some transfer students who have scheduling difficulties. Prerequisite: consent of department head.

306. SPANISH GRAMMAR AND COMPOSITION I. 3 hours. Careful and detailed study of Spanish grammar and syntax reinforced by oral pattern drills and the writing of original compositions.

¹No credit is given for less than a year of a foreign language, full credit being given for each additional course of 1 semester. The requirement of a foreign language in any department must be completed in 1 language.

307. SPANISH GRAMMAR AND COMPOSITION II. 3 hours. Continuation of 306, which is a prerequisite.

308. SPANISH CONVERSATION. 3 hours. Concentrated practice on the oral phases of the language.

310. SURVEY OF SPANISH LITERATURE FROM THE MIDDLE AGES THROUGH THE SEVENTEENTH CENTURY. 3 hours. Forces behind the literature; outstanding examples of the literature.

311. SURVEY OF SPANISH LITERATURE FROM THE EIGHTEENTH CENTURY TO MODERN TIMES. 3 hours. Forces behind the literature; outstanding examples of the literature. Prerequisite: 310.

312. SURVEY OF SPANISH AMERICAN LITERATURE FROM COLONIAL TIMES TO THE PRESENT. 3 hours. Forces behind the literature; outstanding examples of the literature. Prerequisite: 310.

403. CERVANTES. 3 hours. *Don Quixote* and other works of Cervantes.

412. SPANISH PROSE THROUGH THE SEVENTEENTH CENTURY. 3 hours. Outstanding prose works with emphasis on the novel.

413. SPANISH PROSE FROM THE EIGHTEENTH CENTURY TO THE PRESENT. 3 hours. Outstanding prose works with emphasis on the novel.

414. SPANISH DRAMA THROUGH THE SEVENTEENTH CENTURY. 3 hours. Origins of the Spanish drama and of the outstanding dramas of the Golden Age.

415. SPANISH DRAMA OF THE NINETEENTH AND TWENTIETH CENTURIES. 3 hours. Outstanding dramas.

416. SPANISH AND LATIN AMERICAN POETRY. 3 hours. Outstanding poets of Spain and Latin America.

418. TWENTIETH CENTURY SPANISH LITERATURE. 3 hours. The Generation of '98 and its influence on current Spanish thought and literature, with outstanding literary works as the basis.

421. SPANISH CULTURE AND CIVILIZATION. 3 hours. An integration of historical, political, social, and artistic strata in Spanish culture.

499. PROBLEMS IN FOREIGN LANGUAGE INSTRUCTION. 2 hours. A 12-week introduction to special problems of the foreign language instructor; use of the foreign language laboratory, the audio-visual-lingual approach, integration of speaking and reading and other related problems.

MILITARY SCIENCE

Reserve Officers Training Corps

GENERAL MILITARY SCIENCE PROGRAM

LTC JOHN R. HENNIGAN, *Professor and Department Head*

Assistant Professors: Major Cone, Captain Durham, Captain Sullivan

Instructors: Sergeant Major Davis, MSG Rogers

The Senior ROTC Program in Military Science at Northwestern State University is elective. Its purpose is to present qualified students who desire to serve their country the opportunity to do so as officers in the United States Army Reserve. The Program may also lead to a career as a Regular Army officer.

FOUR-YEAR PROGRAM

The 4-year program is divided into 2 parts: (1) Basic Course, first 2 years, and (2) Advanced Course, including Summer Camp, last 2 years.

The Basic Course consists of instruction for a minimum of 3 hours per week for 2 academic years.

The Advanced Course consists of instruction for a minimum of 5 hours per week for 2 academic years and 1 summer camp.

ENROLLMENT

To be eligible for enrollment in the Basic Course, a student must:

1. Be a citizen of the United States.
2. Be physically qualified under standards prescribed by the Department of the Army.
3. Be accepted by the University as a regularly enrolled student.
4. Be at least 15 and not more than 24 years of age at time of enrollment.
5. Complete successfully such survey or screening tests as may be required by the University or the Department of Military Science.

To be eligible for enrollment in the Advanced Course, a student must, in addition to the above:

1. Apply for admission to the Advanced Course.
2. Be accepted by the Professor of Military Science and the President of the University.
3. Be at least 17 and not more than 26 years of age at the time of enrollment.
4. Have a grade point average of at least 2.0 on all hours pursued.
5. Have completed the Senior Division, Basic Course, or have had 1 or more years of active military service.

TWO-YEAR PROGRAM

Students who did not take Basic Course ROTC may enroll in the 2-year program. A 6-week summer camp at the end of the sophomore year takes the place of the Basic Course required in the 4-year program. When a student with 2 years of college has been admitted to the 2-year program and has completed the basic summer camp, he is eligible for the Advanced Course. This same program is available to veterans, for whom the summer camp is not required.

SCHOLARSHIP PROGRAM

The ROTC scholarship programs provide financial assistance for qualified and selected students interested in careers as officers in the Regular Army.

One-year, 2-year, 3-year, and 4-year scholarships are available to selected ROTC students who exhibit strong motivation toward careers in the Army. Each scholarship pays for tuition, books, and laboratory expenses and provides a stipend of \$50 per month during its tenure. Students enrolled in the Ad-

vanced Course summer training session (MS 303) are paid at the rate of \$193 per month.

To qualify for a scholarship, the student must:

1. Enroll in the 4-year program.
2. Display a strong desire for a career as an officer in the Regular Army.
3. Be a citizen of the United States.
4. Be at least 17 years old by October of the year in which he applies for a scholarship.
5. Pass the Regular Army officer physical examination.
6. Agree to accept a commission if it is offered.
7. Agree to serve at least 4 years on active duty.

FLIGHT TRAINING

Flight instruction is available to students in the second year of the Advanced Course. The Army will pay for flight training for selected and qualified ROTC students. Instruction includes 35 hours of ground training and more than 36 hours of flight training (MS 403, 404). Instruction received in MS 403 and 404 may qualify the student to take the Federal Aviation Agency examination for a private pilot's license. Successful completion of this program guarantees entry into Army Aviation.

COMMISSIONS

Upon completion of the Advanced Course and graduation from the University, a student may be commissioned as a second lieutenant. Outstanding students selected as Distinguished Military Graduates by the President of the University will be considered for appointment in the Regular Army. Others may be offered commissions in the United States Army Reserve.

DISTINGUISHED MILITARY GRADUATE PROGRAM

The Distinguished Military Graduate (DMG) Program permits outstanding ROTC students to apply for Regular Army commissions immediately upon graduation. At the end of the junior year and prior to Advanced Course summer camp approximately one-third of each junior ROTC class may be designated potential Distinguished Military students. A student who maintains the same high standards throughout summer camp and his senior year may qualify for designation as a Distinguished Military Graduate and a Regular Army commission upon graduation.

DELAY FOR GRADUATE STUDY

An ROTC graduate may delay his entry into active military service to pursue a full-time course of instruction leading to an advanced degree. Time spent in delay status does not lengthen the active service obligation of officers who accept Reserve commissions. The active service obligations of officers who accept Regular Army commissions are extended 6 months for each year of delay.

ASSIGNMENT AFTER GRADUATION

ROTC graduates are assigned positions of responsibility which take full advantage of their leadership training and college education. Officers, particularly those with backgrounds in scientific and technical fields, may qualify for graduate study at government expense following entry into active service.

SERVICE IN RESERVE STATUS

The officer who elects to pursue a civilian career after active service has many opportunities to continue his military education while completing his military obligation in a Reserve status. Service schools are open to the Reservist at all stages of his career.

SUMMER CAMPS

Students accepted into the 2-year program are required to attend a 6-week Basic summer camp which takes the place of the Basic Course and prepares them for entry into the Advanced Course.

Advanced Course students are required to attend a 6-week summer camp, normally between their junior and senior years. At the camp, students receive on-the-job training, undergo a course in athletics and physical conditioning, gain experience in life under field conditions, and present a series of ceremonies and reviews. The camp is held at an active Army post; the usual post facilities are available to the students during their stay. While in attendance the student earns one-half the pay of a second lieutenant to include travel and subsistence allowances.

TEXTS AND EQUIPMENT

The government will lend the student texts and equipment required in the ROTC program. Flight clothing and other materials used in the flight training program are also provided without charge.

UNIFORMS

Each ROTC student is required to deposit \$10 annually with the University prior to enrollment in Military Science. Five dollars of this fee is placed in the ROTC Activity fund. The remaining \$5 is returnable at the end of each year or at the time of withdrawal, provided the student returns in satisfactory condition all clothing and equipment issued to him. If damage to clothing or equipment exceeds \$5, the additional amount used must be paid by the student prior to his clearance from the University. Prescribed uniforms and insignia are secured from ROTC supply.

The uniform for the Basic Course is on loan to the student from the government. The uniform for the Advanced Course is purchased for the student by the University from commutation of uniform funds authorized by the United States government. The uniform is awarded to the student when he graduates and is commissioned.

EMOLUMENTS

Advanced Course students receive pay of \$50 per month during the school year.

Scholarship holders receive \$50 per month during the entire year for the duration of the scholarship. They are also reimbursed for travel from home to the University and return at the beginning and end of their scholarship tenure. The scholarships pay for full tuition, laboratory fees, books and other required expenses except room and board.

Students in the Advanced Course summer camp receive half the base pay of a second lieutenant with less than 2 years service (presently \$193 per month), room and board, and are reimbursed for travel to and from camp at the rate of 6¢ per mile.

CREDITS

1. Credit for all or part of the 27 semester hours of military science may be used to meet graduation requirements.

2. A total of 8 hours' credit may be earned in the Basic Course. Four hours or fewer but not more than 1 hour per semester may be accepted as free electives toward graduation as part of the 120 hours required in academic courses. The other 4 hours earned may be accepted toward graduation as activity courses. In such cases each military science course so applied may be accepted in lieu of 1 physical activity course, with the exception of PE 1.

Undergraduate Requirements

For a minor (not certifiable in the College of Education): 101, 102, 201, 202, 301, 302, 303, 401, 402 — 23 semester hours.

Courses of Instruction

For Undergraduates Only

101. MILITARY SCIENCE (Basic Course). 2 hours. Organization of the Army and ROTC; individual weapons and marksmanship; leadership laboratory. Fall semester. Lecture 2 hours, leadership laboratory 1 hour.

102. MILITARY SCIENCE (Basic Course). 2 hours. United States Army and national security; leadership laboratory. Spring semester. Lecture 2 hours, leadership laboratory 1 hour. Prerequisite: 101.

201. MILITARY SCIENCE (Basic Course). 2 hours. Basic tactics; American military history; leadership laboratory. Fall semester. Lecture 2 hours, leadership laboratory 1 hour. Prerequisite: 102.

202. MILITARY SCIENCE (Basic Course). 2 hours. American military history; map and aerial photograph reading; introduction to operations; basic tactics and techniques; leadership laboratory. Spring semester. Lecture 2 hours, leadership laboratory 1 hour. Prerequisite: 201.

301. MILITARY SCIENCE (Advanced Course). 3 hours. Leadership principles; military teaching techniques; branches of the Army; leadership laboratory. Fall semester. Lecture 4 hours, leadership laboratory 1 hour. Prerequisite: 202.

302. MILITARY SCIENCE (Advanced Course). 3 hours. Small unit tactics; counter-insurgency; pre-camp orientation; leadership laboratory. Spring semester. Lecture 4 hours, leadership laboratory 1 hour. Prerequisite: 301.

303. MILITARY SCIENCE (Advanced Summer Camp). 3 hours. Six-week camp at an active Army installation under the direction of Army personnel. Practical work and field training; experience in garrison and field. Prerequisite: 302.

401. MILITARY SCIENCE (Advanced Course). 3 hours. Operations; logistics; leadership laboratory. Fall semester. Lecture 4 hours, leadership laboratory 1 hour. Prerequisite: 302.

402. MILITARY SCIENCE (Advanced Course). 3 hours. Logistics; Army administration; military law; role of the United States in world affairs; review of map reading; leadership laboratory. Spring semester. Lecture 4 hours, leadership laboratory 1 hour. Prerequisite: 401.

403. MILITARY SCIENCE. 2 hours. Ground school and basic flight techniques. Essential elements of maintenance, navigation, meteorology, air traffic control, and flight safety. Ground school and approximately 15 hours of actual flying time culminating in a solo flight and the FAA written examination.

404. MILITARY SCIENCE. 2 hours. Advanced flight training. Dual and solo flight instruction. Approximately 25 hours of flight training with emphasis on in-flight emergencies, cross-country flying, and instrument flying, culminating in a check flight with an FAA inspector.

MUSIC

J. ROBERT SMITH, *Associate Professor and Acting Department Head*
Professor: Torgrimson; *Associate Professors:* Beville, Davis;
Assistant Professors: E. Brown, Jennings, LeBlanc, Price, Raush, Scott;
Instructors: Adkins, Cage, Crowder, Krause, Rose, Spigener.

Undergraduate Requirements

For a major, Bachelor of Arts in Applied Music (Liberal Arts): 105, 106, 107, 205, 206, 307, 308 plus 12 hours in applied music major, 6 hours in music activities, and 6 hours in music electives—44 semester hours.

For a major, Bachelor of Music in Applied Music (Liberal Arts): 105, 106, 107, 205, 206, 301, 302, 303 or 304, 307, 308, 401, 402, plus 28 hours in the applied major (including required recital), 8 hours in ensemble playing, and 14 hours of music electives—84 semester hours.

For a major, Bachelor of Music in Theory and Composition (Liberal Arts): 105, 106, 107, 205, 206, 301, 302, 303 or 304, 305, 306, 307, 308, 401, 402, 405, 407, 450, plus 16 hours in an applied major, 6 hours in piano, 4 hours in minor applied music, 8 hours in ensemble, and 12 hours of music electives—92 semester hours.

For a major in Instrumental Music (Education): 105, 106, 107, 205, 206, 302, 304, 304A, 307, 308, 401, 405, a minimum of 13 hours on the major instrument, a minimum of 4 hours in piano, and 13 hours of other applied music, which must include credit in woodwind, brass, string, and percussion instruments—63 semester hours.

For a major in Piano (Education): 105, 106, 107, 205, 206, 302, 303 or 304, 307, 308, 401, plus 18 hours in piano, 6 hours in Piano Ensemble, 4 hours in music activity including 2 hours in chorus, and 6 hours in music electives—62 semester hours.

For a major in Vocal Music (Education): 105, 106, 107, 205, 206, 302, 303, 303A, 307, 308, 401, 404 or 452, plus 18 hours in voice, a minimum of 6 hours in piano, and 3 additional hours of applied music—60 semester hours.

For students majoring in 2 areas (e.g., piano-vocal, instrumental-vocal), there is a residence requirement of 5 years, or 4 years and 3 summer sessions.

A minor in music is available to students in the colleges of Business, Liberal Arts, and Science and Technology.

For a minor in Applied Music: 105, 106, 107, plus 12 hours in applied music (at least 8 of these being in 1 major applied area) and 4 hours of music electives (must include a music activity)—24 semester hours.

For a minor in Music Theory: 105, 106, 107, 205, 206, plus 6 hours in applied music and 4 hours of music electives (must include a music activity)—24 semester hours.

Note: non-music majors pay a fee of \$30 a semester for 1 1-hour private lesson per week and \$15 for 1 half-hour private lesson per week. They must also pay a fee of \$5 a semester for renting a practice room for 1 hour a day and \$2 for each additional hour. There are no special fees for music majors.

Practice requirements are as follows: 1 hour a day for each hour of major applied credit; a half-hour per day for each hour of minor applied credit.

Music majors are required to attend all Student Recital Hours, Artist Series events, faculty recitals, and specified programs by visiting artists.

Courses in Music Education (special methods) for students majoring in music will be found listed in the offerings of the College of Education section.

Graduate Requirements

For the Master of Music Education

Undergraduate preparation for a major: bachelor's degree in music education.

Special requirements for a major: 501, participation in the musical organization representative of the student's major field.

Courses marked with an asterisk (*) are those courses in which formal written reports in lieu of a thesis may be submitted.

For the Master of Music

Undergraduate preparation for a major: bachelor's degree in music; demonstrated proficiency in French or German, or 12 semester hours of undergraduate credit or the equivalent in 1 of these languages.

The Master of Music degree can be earned in any 1 of the following programs:

A. Major in Applied Music: 8 semester hours in the applied major (512, 513); 4 hours for a performance thesis, including a recital and attendant investigative report based on the literature performed (598); 3 hours in theory or composition and 6 hours in music literature selected from approved graduate courses; 9 hours in free electives, a minimum of 6 of which may be selected from approved graduate courses outside of music; ensemble (participation without graduate credit in a musical organization representative of the student's major applied area).

Special requirements: an entrance examination on the major instrument must be taken before admission to this degree program. Deficiencies must be erased without graduate credit. Those who do not pass an entrance examination in music theory must take Music 501, which will not apply toward degree requirements.

B. Major in Composition: 6 semester hours in graduate level composition; 6 hours in thesis (598, original composition with complete analysis); 6 hours in approved graduate theory courses, including 1 course in 20th century harmony, if not previously taken; 6 hours in approved graduate music literature and applied music courses, with at least 3 hours in music literature and including at least 1 course in 20th century music, if not previously taken; 6 hours of free electives, all or part of which may be taken outside of music; ensemble (participation without graduate credit in a musical organization representative of the student's major applied area).

Special requirements: scores representative of previous original compositions must be submitted for evaluation before admission to this degree program. Those who do not pass an entrance examination in music theory must take Music 501, which will not apply toward degree requirements.

C. Major in Music Theory: 9 semester hours in music theory, including a course in theory pedagogy, and 3 hours in composition, to be selected from approved graduate courses; 6 hours in thesis (598, must be a research report, not an original composition); music literature, applied music, free elective, and ensemble requirements, totalling 12 hours, are the same as for composition majors.

Special requirements: those who do not pass an entrance examination in music theory must take Music 501, which will not apply toward degree requirements.

Courses of Instruction

For Undergraduates Only

100.¹ INTRODUCTION TO MUSIC THEORY. 3 hours. Fundamentals of music theory. Designed for beginning music students who need additional training and review prior to entering Music 105. Basic factors such as: the Great Staff; notes and note-values; key signatures; intervals; simple and compound meter; elementary sight singing, ear training and dictation; simple keyboard exercises; rudimentary musical terms; basic elements of form.

102. INTRODUCTION TO MUSIC THERAPY. 1 hour. History, basic concepts, and areas of clinical practice; general information course open to all students.

105. ELEMENTARY HARMONY. 3 hours. Review of fundamentals; use of the 3 principal triads; alto and tenor clefs; cadences.

Note: each new problem in this course and the 3 succeeding courses is studied from several approaches: keyboard drills, rhythmic reading, sight singing, melodic and harmonic dictation, written harmony, and analysis.

106. ELEMENTARY HARMONY. 3 hours. Continuation of 105. Inversion of the triad; non-harmonic tones; secondary triads; introduction to diatonic seventh chords.

107. INTRODUCTION TO MUSIC LITERATURE. 2 hours. Forms of musical composition and the media for their performance, to be used as a basis for subsequent musical experiences; materials taken from Gregorian chant through the present time. Lecture 2 hours, laboratory 1 hour.

150. RECITALS AND CONCERTS. Credit. Required attendance at recitals and concerts for all music majors.

205. ADVANCED HARMONY. 3 hours. Continuation of 106. Modulation to closely related keys; form and melody; further use of diatonic 7th chords; introduction to altered chords; borrowed chords.

206. ADVANCED HARMONY. 3 hours. Continuation of 205. Secondary dominant chords; secondary leading tone triads and 7th chords; augmented triads and the Neapolitan 6th chord; augmented 6th chords; chords of the 9th, 11th, and 13th; advanced modulation.

301. COUNTERPOINT. 3 hours. Based on the 16th-century style as found in the sacred music of Lassus and Palestrina; writing in 2 and 3 voices using the devices and forms of the period. Lecture 2 hours, laboratory 1 hour. Prerequisite: 206.

302. COUNTERPOINT. 3 hours. Writing of choral preludes, inventions and figures in 2, 3 and 4 voices, based on 18th-century practice; contemporary contrapuntal techniques including those based on modal writing, synthetic scales, polytonality, and serial techniques. Lecture 2 hours, laboratory 1 hour. Prerequisite: 206.

303. CHORAL CONDUCTING. 2 hours. Routine and technique of choral conducting. Prerequisite: junior standing.

¹On the basis of a placement test, entering students will be sectioned and required to complete 2 or 3 courses in freshman music theory. Six hours of freshman music theory are required of all music majors, and the required courses must be taken in sequence. For students who take 9 hours of freshman music theory, 3 hours will be added to the total number required for graduation. There will be no change in the amount of theory required beyond the freshman level.

303A. CHORAL CONDUCTING. 2 hours. Continuation of 303. Techniques of conducting choral groups. Score analysis, interpretation and problems of preparation, rehearsal, and performance. Prerequisite: 303.

304. INSTRUMENTAL CONDUCTING. 2 hours. Routine and technique of instrumental conducting. Prerequisite: junior standing.

304A. INSTRUMENTAL CONDUCTING. 2 hours. Continuation of 304. Techniques of conducting instrumental groups. Score analysis, interpretation and problems of preparation, rehearsal, and performance. Prerequisite: 304.

305. ELEMENTARY COMPOSITION I. 2 hours. Original composition in small forms for both vocal and instrumental media. Prerequisite: 206.

306. ELEMENTARY COMPOSITION II. 2 hours. Continuation of 305, including an introduction to contemporary techniques.

307. THE HISTORY OF MUSIC. 3 hours. Evolution of music with reference to periods, style, and form; the place of the subject in the artistic and social development of nations; analysis of representative works of each period up to the time of Beethoven.

308. THE HISTORY OF MUSIC. 3 hours. Continuation of 307. Beethoven to the present.

315. SERVICE PLAYING. 1 hour. Playing hymns and chants and accompanying at the organ; problems in playing for religious services. Prerequisite: consent of instructor.

316. SERVICE PLAYING. 1 hour. Continuation of 315.

317. IMPROVISATION. 1 hour. Improvisation of interludes and compositions in the various styles; modulation. Prerequisite: consent of instructor.

318. IMPROVISATION. 1 hour. Continuation of 317.

350. MARCHING BAND TECHNIQUES. 2 hours. Fundamentals employed in preparing football shows and street parade marching.

401. FORM AND ANALYSIS. 3 hours. Analysis of large and small forms illustrated in the works of composers of the 18th, 19th, and 20th centuries. Prerequisite: 302.

402. FORM AND ANALYSIS. 3 hours. Continuation of 401.

404. CHORAL ARRANGING. 3 hours. Basic techniques in arranging music for solo voice and various types of choral groups, including the setting of appropriate texts, piano accompaniment styles, and assignments dealing with the needs and limitations of public-school organizations. Prerequisite: 206.

405. INSTRUMENTATION. 3 hours. Instruments used in the modern band and orchestra; technique of scoring for band and orchestra; arranging music for band and orchestra, including assignments dealing with the needs and limitations of public-school organizations. Prerequisite: 206.

416. VOCAL PEDAGOGY. 2 hours. Methods of teaching voice; diagnosis of vocal problems; study of appropriate teaching repertoire. Prerequisite: 6 semesters or 15 semester hours of voice study.

450. COMPOSITION RECITAL OR RESEARCH PROJECT. 2 hours. Preparation and presentation of a recital of original compositions or a research project in music theory; required of all theory-composition majors. Prerequisites: 407, senior standing.

APPLIED MUSIC

Class Piano for Students Not Majoring in Piano

11A. MINOR PIANO I. 1 hour. Beginning material in 5-finger positions with simple shifts in position; tonic, dominant 7th and subdominant chords in all keys using simple progressions; supplementary material assigned by the teacher.

21A. MINOR PIANO II. 1 hour. More difficult material with more complicated shifts in position; pieces in 2 voices; chords in various positions. Prerequisite: 11A.

31A. MINOR PIANO III. 1 hour. Material on the second grade level with emphasis on polyphonic style, variety of keys, and continued work on chords. Prerequisite: 21A.

41A. MINOR PIANO IV. 1 hour. Continued work on second grade material and simple pieces in chorale style; special work in sight reading. Instrumental music majors in the College of Education must pass a barrier examination on these requirements for the Piano Jury before credit will be given in this course. Prerequisite: 31A.

Private Piano for Students Not Majoring in Piano

51A. MINOR PIANO V. 1 hour.

52A. MINOR PIANO V. 2 hours. The easier compositions of Bach; simple sonatinas; pieces in chorale style; accompaniments from the field of the student's applied major. Prerequisite: 41A.

61A. MINOR PIANO VI. 1 hour.

62A. MINOR PIANO VI. 2 hours. Continuation of Minor Piano V with special emphasis on sight reading. Vocal music majors in the College of Education must pass a barrier examination on these requirements for the Piano Jury before credit will be given in this course. Prerequisite: 51A or 52A.

71A. MINOR PIANO VII. 1 hour.

72A. MINOR PIANO VII. 2 hours. Specialized work based on the needs and abilities of the student wishing to elect further study in piano. Prerequisite: 61A or 62A.

81A. MINOR PIANO VIII. 1 hour.

82A. MINOR PIANO VIII. 2 hours. Continuation of Minor Piano VII. Prerequisite: 71A or 72A.

91A. MINOR PIANO IX. 1 hour.

92A. MINOR PIANO IX. 2 hours. Bach: short preludes and fugues; advanced sonatinas; composition from the Romantic and Modern periods. Prerequisite: 81A or 82A.

Courses for Students Majoring in Piano¹

111A. MAJOR PIANO I. 1 hour.

112A. MAJOR PIANO I. 2 hours.

113A. MAJOR PIANO I. 3 hours. Two-Part Inventions; easy sonatas of the Classical Period; compositions from the Romantic and Modern periods; scales and arpeggios. Prerequisite: consent of piano faculty.

¹One hour a day of practice for each hour of credit is required of piano majors; the requirements for the amount of literature to be learned and memorized will vary in proportion to the amount of credit earned.

121A. MAJOR PIANO II. 1 hour.

122A. MAJOR PIANO II. 2 hours.

123A. MAJOR PIANO II. 3 hours. Continuation of Major Piano I completing a well-balanced program. Prerequisites: 111A, 112A or 113A.

211A. MAJOR PIANO III. 1 hour.

212A. MAJOR PIANO III. 2 hours.

213A. MAJOR PIANO III. 3 hours. Bach: Three-Part Inventions; sonatas of moderate difficulty; compositions representing the major periods of keyboard literature; scales and arpeggios. Prerequisites: 121A, 122A or 123A.

221A. MAJOR PIANO IV. 1 hour.

222A. MAJOR PIANO IV. 2 hours.

223A. MAJOR PIANO IV. 3 hours. Continuation of Major Piano III completing a well-balanced program. Prerequisites: 211A, 212A or 213A.

311A. MAJOR PIANO V. 1 hour.

312A. MAJOR PIANO V. 2 hours.

313A. MAJOR PIANO V. 3 hours. Bach: Well-Tempered Clavier or Suites; sonatas or concertos of medium difficulty; compositions representing the major periods of keyboard literature; scales and arpeggios. Prerequisites: 221A, 222A or 223A.

321A. MAJOR PIANO VI. 1 hour.

322A. MAJOR PIANO VI. 2 hours.

323A. MAJOR PIANO VI. 3 hours. Continuation of Major Piano V completing a well-balanced program. Prerequisites: 311A, 312A or 313A.

411A. MAJOR PIANO VII. 1 hour.

412A. MAJOR PIANO VII. 2 hours.

413A. MAJOR PIANO VII. 3 hours. Recital literature perfected for performance. Prerequisites: 321A, 322A or 323A.

415A. MAJOR PIANO VII. 5 hours. Preparation of a public recital in the program of study leading to the Bachelor of Music degree. Prerequisite: 321A, 322A or 323A.

421A. MAJOR PIANO VIII. 1 hour.

422A. MAJOR PIANO VIII. 2 hours.

423A. MAJOR PIANO VIII. 3 hours. Continuation of Major Piano VII completing a well-balanced program. Prerequisite: 411A, 412A or 413A.

425A. MAJOR PIANO VIII. 5 hours. Preparation and performance of the public recital required in the program of study leading to the Bachelor of Music degree. Prerequisite: 415A.

Piano Ensemble for Students Majoring in Piano

11S, 21S, 31S, 41S, 51S, 61S, 71S, 81S. PIANO ENSEMBLE. 1 hour each. Experience in sight reading, accompanying and ensemble playing.

APPLIED MUSIC OTHER THAN PIANO

B. Organ

C. Voice

D. Flute

E. Oboe

F. Clarinet

G. Bassoon

H. Saxophone

I. French Horn

J. Trumpet.

K. Trombone

L. Euphonium

M. Tuba

N. Percussion

O. Violin

P. Viola

Q. Cello

R. String Bass

Add to the number used below the letter representing the selected applied area as listed above. For example, Music 11D indicates a 1st-semester class in Minor Flute for 1 hour of credit. Music 223N is a 4th-semester course in Major Percussion for 3 hours credit.

Minor Applied Music

11, 21, 31, 41, 51, 61, 71, 81, 91. 1 hour each. One class lesson or equivalent per week.

12, 22, 32, 42, 52, 62, 72, 82, 92. 2 hours each. Two class lessons or equivalent per week.

Major Applied Music

111, 121, 211, 221, 311, 321, 411, 421. 1 hour each.

112, 122, 212, 222, 312, 322, 412, 422. 2 hours each.

113, 123, 213, 223, 313, 323, 413, 423. 3 hours each.

415, 425. 5 hours each. Includes recital.

Courses for Students Not Majoring in Music

101. CLASS PIANO FOR NON-MUSIC MAJORS. 3 hours. Basic note reading; use of chords for harmonizing melodies and demonstrating techniques and methods for use in classroom music; designed primarily for elementary education majors. Open to any student. Prerequisite or corequisite: 30A or 30B; or consent of instructor.

103. MUSIC APPRECIATION. 3 hours. Designed to guide the student in listening to music intelligently; stress given to listening experiences and general principles. Open to any student.

30A. FUNDAMENTALS OF MUSIC. 3 hours. Major and minor keys, scales, intervals, chords, music reading; emphasis on class singing of songs for the pre-school and primary grades.

30B. FUNDAMENTALS OF MUSIC. 3 hours. Major and minor keys, scales, intervals, chords, music reading; emphasis on class singing of songs for the upper elementary grades.

NOTE: credit cannot be earned in both Music 30A and Music 30B.

40. MUSIC IN THE ELEMENTARY GRADES. 3 hours. Presentation of materials in music for the primary and upper elementary grades. Prerequisite: 30A or 30B.

MUSIC ACTIVITIES

The Music Department requires that non-music majors desiring credit in any one of the music activities shall have had sufficient previous experience to justify the granting of credit. No more than 6 semester hours of credit may be earned in any combination of extra-curricular activities. No more than 3 semester hours may be earned in any 1 of the activities, except in the case of music curricula requiring 8 semester hours in band, chorus, ensemble, or orchestra. The following activities are offered for credit:

131. BAND. 1 hour or credit.

132. CHORALE. 1 hour or credit.

133. CHAMBER CHOIR. 1 hour or credit.

134. ORCHESTRA. 1 hour or credit.

135. STRING ENSEMBLE. 1 hour or credit.

136. STAGE BAND. 1 hour or credit.

137. OPERA WORKSHOP. 1 hour or credit.

- 138. **WOMEN'S CHORUS.** 1 hour or credit.
- 139. **BRASS ENSEMBLE.** 1 hour or credit.
- 140. **PERCUSSION ENSEMBLE.** 1 hour or credit.
- 141. **WOODWIND ENSEMBLE.** 1 hour or credit.

For Undergraduates and Graduates

403. TWENTIETH-CENTURY HARMONY. 3 hours. Analysis and writing of contemporary harmony, including chords built from fourths and seconds, unusual scale forms, pandiatonicism, polytonality, atonality; contemporary rhythmic devices. Prerequisite: 206.

406. TWENTIETH-CENTURY MUSIC. 3 hours. Major composers and schools of composition from Debussy to the present. Prerequisite: junior standing or consent of instructor.

407. COMPOSITION I. 3 hours. Writing of songs and short choral and instrumental pieces. Prerequisite: 402 or 501.

408. COMPOSITION II. 3 hours. Continuation of 407.

409. ORCHESTRATION. 3 hours. Orchestral instruments; technique of scoring for symphonic orchestra; special attention to the needs and limitations of public-school orchestras. Prerequisite: 405.

410. ORCHESTRATION. 3 hours. Continuation of 409.

431. PIANO LITERATURE. 3 hours. Music written for keyboard instruments in the Classic, Romantic, and Modern periods. Prerequisite: consent of instructor.

432. PIANO LITERATURE. 3 hours. Continuation of 431.

433. VOCAL LITERATURE. 3 hours. Songs of the Classic, Romantic, and Modern periods, including the Italian, German, French, Russian, American, and English repertory. Prerequisite: consent of instructor.

434. VOCAL LITERATURE. 3 hours. Continuation of 433.

435. STRING LITERATURE. 3 hours. Music for strings in the Classic, Romantic, and Modern periods. Prerequisite: consent of instructor.

436. STRING LITERATURE. 3 hours. Continuation of 435.

437. WOODWIND LITERATURE. 3 hours. Music written expressly for woodwinds in the Classic, Romantic, and Modern periods. Prerequisite: consent of instructor.

438. WOODWIND LITERATURE. 3 hours. Continuation of 437.

440. FRENCH DICTION. 1 hour.

441. GERMAN DICTION. 1 hour.

442. ITALIAN DICTION. 1 hour.

446. BAND LITERATURE FOR SCHOOLS. 3 hours. Comprehensive study and analysis of band music. Prerequisite: consent of instructor.

448. ORCHESTRA LITERATURE FOR SCHOOLS. 3 hours. Comprehensive study and analysis of orchestral music. Prerequisite: consent of instructor.

452. CHORAL LITERATURE FOR SCHOOLS. 3 hours. Comprehensive study and analysis of choral music. Prerequisite: consent of instructor.

454. BRASS LITERATURE FOR SCHOOLS. 3 hours. Comprehensive study and analysis of brass music. Prerequisite: consent of instructor.

456. PERCUSSION LITERATURE FOR SCHOOLS. 3 hours. Comprehensive study and analysis of percussion music. Prerequisite: consent of instructor.

For Graduates Only

501. PRACTICAL HARMONY. 3 hours. Review of harmony; keyboard application of harmonic idioms, transposition, and improvisation; notation and calligraphy; harmonic and melodic devices in written work.

502. ADVANCED FORM AND ANALYSIS. 3 hours. Individual projects in analysis and class discussion of representative works in large forms from all periods. Prerequisite: 402 or equivalent.

503. THEORY PEDAGOGY. 3 hours. Methods of teaching music theory concepts and skills, including principles of learning, history of theory, and a critical study of appropriate texts; supervised teaching of music theory classes included.

504. ADVANCED INSTRUMENTAL ARRANGING. 3 hours. Practical band arranging; orchestration for average school situations with full instrumentalizations.

505. CANON AND FUGUE. 3 hours. Canonic writing, double counterpoint, and fugues, with emphasis on 18th century style. Prerequisite: 302 or equivalent.

506. ADVANCED CHORAL ARRANGING. 3 hours. Analysis of secular and sacred choral literature as to form and harmonic structure; extension of individual creative ability by the arranging of assigned melodies for different voicing; good choral sounds and effects; voice problems and techniques. Prerequisite: graduate standing in theory.

507. CHAMBER MUSIC I. 1 hour. Performance of important works composed for small combinations of instruments and/or voices. Prerequisite: consent of instructor.

508. CHAMBER MUSIC II. 1 hour. Continuation of 507. Prerequisites: 507 and consent of instructor.

510. MINOR PIANO I. 2 hours. Techniques in preparation for playing accompaniments and hymns, and more advanced repertoires for majors in vocal and instrumental music.

511. MINOR PIANO II. 2 hours. Continuation of 510.

512. APPLIED MUSIC (Major). 1-4 hours. Individual instruction in the student's major instrumental or vocal field; may be repeated until a maximum of 4 hours is achieved.

513. APPLIED MUSIC (Major). 1-4 hours. Continuation of 512.

516. APPLIED MUSIC (Minor). 1-3 hours. Individual instruction; literature and technique leading toward proficiency of performance.

517. APPLIED MUSIC (Minor). 1-3 hours. Continuation of 516.

***520. ADMINISTRATION AND SUPERVISION OF INSTRUMENTAL GROUPS I.** 3 hours. Organization and administration of public school bands and orchestras; rehearsal methods and techniques; library systems; program building; publicity methods; contest-festival preparation; instrumentation planning and building, and substitution of instruments; plans and techniques of class instrument instruction; selecting, buying, and caring for school instruments; marching-band problems.

***521. ADMINISTRATION AND SUPERVISION OF INSTRUMENTAL GROUPS II.** 3 hours. Continuation of 520.

522. ADVANCED INSTRUMENTAL CONDUCTING. 3 hours. Critical examination of scores with reference to rehearsals and interpretative problems, especially those in the average school situation for concert performances, contests, and festivals; laboratory experience.

524. ADVANCED CHORAL CONDUCTING. 3 hours. Art of choral conducting; techniques involved in the producing of good choral tone; use of suitable material with particular attention to adopted senior high school textbooks; experience in conducting choral groups.

***526. VOCAL PROBLEMS.** 3 hours. Individual and group vocal problems; scientific rationale of vocal development in relation to pedagogy of the voice class, private instruction, and choral groups.

***527. ORGANIZATION AND SUPERVISION OF PUBLIC SCHOOL VOCAL MUSIC.** 3 hours. Administration of vocal music education; emphasis on leadership and improvement of instruction; public relations; problems in scheduling, budget, and finance.

530. MEDIEVAL AND RENAISSANCE MUSIC. 3 hours. History of Western music up to about 1600, including the examination of representative compositions from these periods. Prerequisite: 308 or equivalent.

531. MUSIC IN THE BAROQUE ERA. 3 hours. Development of the homophonic and contrapuntal styles of the 17th and 18th centuries; beginnings of opera, oratorio, chamber and orchestral music, and solo literature. Prerequisite: 308 or equivalent.

532. MUSIC IN THE CLASSIC PERIOD. 3 hours. Development of sonata form; emergence of the modern orchestra and chamber music ensembles; representative works from the music literature of the period. Prerequisite: 308 or equivalent.

533. MUSIC IN THE ROMANTIC PERIOD. 3 hours. Western music of the 19th century, including the further development of sonata form, the symphony, opera, solo song, free forms, and program music. Prerequisite: 308 or equivalent.

***540. SPECIAL PROBLEMS.** 1-3 hours. Techniques and literature. Scheduled by counsel of student's adviser.

550. ADVANCED COMPOSITION. 3 hours. Original composition of large-scale works in a contemporary idiom. Prerequisite: 408 or equivalent.

551. ADVANCED COMPOSITION II. 3 hours. Continuation of 550.

555. CLASSROOM MUSIC. 3 hours. Music in the elementary classroom; evaluation of philosophies, aims, and concepts of music education; choosing and organizing teaching materials and further development of skills in teaching music.

560. GENERAL MUSIC. 3 hours. Philosophies and methods of the general music class as propounded by the leading authorities in the field; music literature arranged and compiled especially for the general music class.

598. THESIS. Maximum, 6 hours.

PSYCHOLOGY

DONALD O. GATES, *Associate Professor and Acting Department Head*

Assistant Professors: Bennett, Breckenridge

Undergraduate Requirements

For a major (Liberal Arts): 101, 111, 440, 441, 443, 445 or 447, 448, and 12 hours of electives in courses listed by the Department of Psychology — 31 semester hours; also either 1 of the following:

1. For the Bachelor of Arts: 12 hours in 1 foreign language; or
2. For the Bachelor of Science: 12 hours in computer science.

For a minor (not applicable to College of Education requirements): 101, 440, 441, 445 or 447, and 3 semester hours in a laboratory course (102, 302, or 443), and 3 semester hours of electives in courses listed or dually listed by the Department of Psychology—18 semester hours.

Graduate Requirements for the Master of Science

Undergraduate preparation for a major: 18 semester hours in psychology or educational psychology, including 101 or Educational Psychology 201. In correcting deficiencies, only credits earned with a minimum grade of "B" will be accepted.

Special requirements for a major: 36 semester hours, including 598, 591, 592; 440, 441, and 443 for those who have not earned undergraduate credit in these courses. During the first 2 terms in residence, each graduate student must be enrolled in 591 or 592. Also, either 1 of the following requirements must be satisfied:

1. Twelve semester hours, 6 semester hours of sophomore-level credit, or demonstrated proficiency in a single foreign language.
2. Twelve additional semester hours, bringing the total required to 48 hours of graduate credit, of which at least 30 semester hours must be in psychology, educational psychology, or advanced statistics.

Undergraduate preparation for a minor: at least 6 semester hours in psychology or educational psychology, including either 101 or Educational Psychology 201.

Special requirements for a minor: 440, 445 or 447, and 6 semester hours of electives in courses listed or dually listed by the Department of Psychology — 12 semester hours. Students with undergraduate grades of C or better in the specified course requirements must substitute appropriate psychology electives for them in the graduate minor program.

Courses marked with an asterisk (*) are those in which formal written reports in lieu of a thesis may be submitted by students in graduate programs other than psychology.

Courses of Instruction

For Undergraduates Only

101.¹ GENERAL PSYCHOLOGY. 3 hours. Principles of psychology, with special attention to human behavior; the shaping of behavior and personality by interaction between the individual and the environment.

102. BEHAVIOR SHAPING. 3 hours. Principles involved in the shaping

¹Only in the College of Education may a student use both Psychology 101 and Educational Psychology 201 to meet degree requirements.

of operant behavior, with introduction to elementary laboratory techniques in the analysis of operant behavior. Lecture 2 hours, laboratory 3 hours. Designed primarily for majors and potential majors in psychology; others admitted with consent of instructor.

111. GENERAL PSYCHOLOGY LABORATORY. 1 hour. Directed laboratory work correlated with the content of 101, with emphasis on human behavior, 2 to 3 hours per week. To be pursued concurrently with 101, if possible. Corequisite: 101 or consent of instructor.

205. DEVELOPMENTAL PSYCHOLOGY. 3 hours. Physical, mental, social and emotional development of the individual throughout life; emphasis on understanding human dynamics with respect to self and others. Prerequisite: 101 or Educational Psychology 201. (Formerly 305.)

206. PSYCHOLOGY OF GROUP AND MASS BEHAVIOR. 3 hours. Psychology of group and mass attitudes; group dynamics and leadership; mass persuasion in consumer behavior, politics, and warfare.

245. PERSONAL ADJUSTMENT AND DEVELOPMENT. 3 hours. Understanding and dealing with frustration, adjustment mechanisms, personal motivation, feelings and emotions; interpersonal adjustments; identifying and resolving common problems of conflict and adjustment in each stage of life; self-understanding, self-acceptance, and maximum utilization of personal capacities and traits. Prerequisite: 101 or Educational Psychology 201 or consent of instructor.

247. FIELDS OF MENTAL HEALTH AND HUMAN RELATIONS. 3 hours. A systematic presentation of psychological theories of mental health and human relations, and practical applications in fields of mental health work. Prerequisite: 101 or Educational Psychology 201.

For Undergraduates and Graduates

301. PHYSIOLOGICAL PSYCHOLOGY. 3 hours. Functional organic and biochemical factors as determinants of personality and behavior; emphasis on the nervous and endocrine systems. Prerequisite: 101.

302. PSYCHOLOGICAL PRINCIPLES OF LEARNING. 3 hours. Psychological process of learning as a determinant of personality and behavior; from conditioning of simple reflexes to higher and emotional functions. Lecture 2 hours, laboratory 2 to 3 hours. Prerequisite: 101.

306. SOCIAL PSYCHOLOGY. 3 hours. The individual in relationship to others; the nature and development of personality; social behavior and adjustments. Prerequisite: 101 or Educational Psychology 201. (Same as Sociology 306.)

440. STATISTICS FOR PSYCHOLOGY AND EDUCATION. 3 hours. Statistical procedures employed in the description and interpretation of psychological, educational, and behavioral research data and measurement. (Same as Educational Psychology 440.) Prerequisite: 101 or Educational Psychology 201.

441. PSYCHOLOGICAL TESTS AND MEASUREMENTS. 3 hours. Essential characteristics, interpretations, uses and misuses of standardized psychological tests; typical examples of each variety; development and use of objective tests, essay tests, rating scales, attitude scales. Prerequisite: 101 or Educational Psychology 201.

443. EXPERIMENTAL PSYCHOLOGY. 3 hours. Basic classical and modern experiments in psychology, and principles of experimental psychology illustrated therein; laboratory experience in conducting and reporting basic types of psychological experiments. Prerequisite: 101.

***445. ABNORMAL PSYCHOLOGY.** 3 hours. Nature and etiology of the most common deviant mental and emotional conditions, with particular emphasis on their various potentials for rehabilitation, readjustment, and learning. Prerequisite: 101 or Educational Psychology 201.

***446. INTRODUCTION TO EXCEPTIONAL CHILDREN.** 3 hours. Common types of physical, mental, and social-emotional deviates, with emphasis on implications for training or education. Prerequisite: 101 or Educational Psychology 201. (Same as Special Education 446).

447. PERSONALITY DYNAMICS. 3 hours. Dynamics underlying modes of behavior; rationale of adaptive as well as maladaptive behavior, and behavior disorders within the normal range; theories of personality. Prerequisite: 101 or Educational Psychology 201.

448. SYSTEMS OF PSYCHOLOGY. 3 hours. Comparative study, with some unifying reconciliation, of the various dominant systems or "schools" of psychology which represent the major different approaches to the study of human behavior. Prerequisites: 12 hours in psychology.

449. INDEPENDENT PSYCHOLOGICAL RESEARCH. 3 hours. Each student will design, conduct, and file a satisfactory report of an original psychological research project, under the direction of the assigned adviser. Not necessarily limited to laboratory experimentation. Prerequisites: 12 hours in psychology.

450. PSYCHOLOGY IN BUSINESS AND INDUSTRY. 3 hours. Psychological foundations of practices, procedures, and conditions in business and industry; psychological implications of work in relation to personality and culture. Prerequisite: 101.

For Graduates Only

547. THEORIES OF PERSONALITY. 3 hours. A survey, comparison, and analysis of major theories of personality, from the classic Greek theories through the predominant modern theories. Prerequisite: 447 recommended.

***563. THE PSYCHOLOGY OF SPEECH.** 3 hours. Origin of speech and language; psychological aspects of speech; interrelations between speech and personality. (Same as Speech 563 and Special Education 563.)

570. PRACTICUM IN PSYCHOLOGY. Maximum, 6 hours. The student will engage in the actual practice of psychology in his field of specialization, under direct supervision by a regular faculty member or a selected, cooperating licensed psychologist. For each 3 semester hours pursued, at least 1 hour per week will be devoted to formal instruction or conferences, and at least 6-9 hours to supervised practice. Semester hours earned in practicum will be added to the requirement of 18 hours of graduate credit in psychology, but will not increase the total of 36 hours required for the degree. Prerequisites: 18 hours in psychology or educational psychology.

572.¹ THE STANFORD-BINET INTELLIGENCE SCALE. 3 hours. Nature and individual testing of intelligence, with special reference to the Stanford-Binet Intelligence Scale; supervised practice with the Stanford-Binet scale in testing 25 to 50 examinees. Six to 8 hours of laboratory work per week. Prerequisite: 441 or Educational Psychology 442 or Education 542 or Education 552.

573.¹ THE WECHSLER INTELLIGENCE SCALE. 3 hours. Nature and individual testing of intelligence, with special reference to the Wechsler scales; supervised practice, with at least 1 of the Wechsler scales, in testing 25 to

¹A student may not use both 572 and 573 to meet requirements for the master's degree.

50 examinees. Six to 8 hours of laboratory work per week. Prerequisite: 441 or Education Psychology 442 or Education 542 or Education 552.

574. ADVANCED EXPERIMENTAL PSYCHOLOGY. 3 hours. Extension of 443, with greater emphasis on experimental design, statistical analysis of data, and original experimentation. Lecture 2 hours, laboratory 3 hours. Prerequisites: 440 and 443.

575. PSYCHOPATHOLOGY. 3 hours. Nature and etiology of the more severe forms of psychoneuroses and psychoses encountered in hospitals or clinics. Prerequisite: 445 or 447.

576. ELEMENTARY PSYCHODIAGNOSIS. 3 hours. Elementary projective and non-projective techniques, instruments, and procedures in the assessment of personality and psychopathology. Prerequisite: 445 or 447.

577. PERSONNEL ASSESSMENT. 3 hours. Development or selection, and use of psychological instruments and procedures in assessment for selection, placement, promotion, and assignment to training programs in organizations. Prerequisite: 101 or Educational Psychology 201, or consent of instructor.

578. SYSTEMS DEVELOPMENT IN TRAINING. 3 hours. Principles, techniques, and practice in the psychological technology of systems development in programs of training or instruction. Emphasis on automated or semi-automated systems, rather than conventional classroom teaching. Prerequisite: 102 or 18 semester hours in psychology; or corequisite: 302 or Educational Psychology 541, or consent of instructor.

590. SEMINAR IN PSYCHOLOGY. Credit to 3 hours. No hours of credit for the first semester pursued, 3 hours for the second. Reports by staff and graduate students on recent research and discoveries in psychology, including their own current or recent research.

591. PSYCHOLOGICAL RESEARCH METHODS. 3 hours. Design, procedure, analysis and reporting in the major varieties of psychological research, including published models.

592. RECENT RESEARCH AND TRENDS IN PSYCHOLOGY. 3 hours. Recent research and trends in psychology, including reports of current research by faculty members and students.

598. THESIS. Maximum, 6 hours.

648. PSYCHOLOGY OF READING. 3 hours. Basic psychological processes involved in the learning and performance of reading behavior; sensory bases, perception, the psychological learning process, attitudes and motivation, and personality factors; clinical applications. Prerequisite: 101 or Educational Psychology 201. (Same as Educational Psychology 648.)

SOCIAL SCIENCES

WILLIAM B. KNIPMEYER, *Professor and Department Head*

Professor: Stokes; *Associate Professors:* Culp, Eversull, Nahm;

Assistant Professors: Brown, Chen, Gregory, Milner, Nichols, Snowden;

Instructors: Antoon, Curry, Knotts, Ried.

Undergraduate Requirements

For a social science major (Liberal Arts): 45 semester hours, including a cross-section of anthropology, economics, geography, history, political science, philosophy, sociology, and social studies, in which there will be a minimum of 12 hours in 1 subject.

For a social science major (Education): Economics 201, 202; Geography 305, 306; History 101, 102, 201, 202; Political Science 201, 202; Social Studies 101, 102, 303; Sociology 101 and sociology elective, 3 hours; social science elective, 3 hours—48 semester hours.

For a social science minor (except Education): 27 semester hours, 6 of which must be in 1 field of the social sciences and 9 on the junior-senior level.

For a social science minor (Education): Social Studies 101, 102, 303; History 201, 202; Political Science 201; 6 hours selected from Geography 201, History 101, 102, Political Science 202; and 6 additional hours selected from anthropology, economics, geography, and sociology (the 6 hours may be distributed or taken under 1 subject heading)—30 semester hours.

Graduate Requirements

1. For the Master of Arts

Undergraduate preparation for a social science major: 33 semester hours in the social sciences, including a minor as defined at Northwestern State University which supports the graduate major, or the equivalent; demonstrated proficiency in French or German, or 12 semester hours of undergraduate credit or the equivalent in 1 of these languages.¹

Special requirements for a social science major: Social Studies 598; 24 semester hours in the several areas of the social sciences, including at least 6 hours in 1 subject area. Students are expected to follow a unified course of study leading to a major in such areas as American Studies, Social Thought, International Relations, or European Civilization.

2. For the Master of Arts in Education

Undergraduate preparation for a social science major: 33 semester hours of social sciences, including a minor as defined at Northwestern State University which supports the graduate major, or the equivalent.

Special requirements for a social science major: 12 semester hours in the social sciences and a thesis, or 18 semester hours and 2 research papers in lieu of a thesis, or 21 semester hours and 1 research paper in lieu of a thesis. Degree requirements may be fulfilled in either of the following programs:

A. GENERAL PROGRAM: the course content of the major is to be determined by the student's committee in terms of the student's academic background and teaching needs. It is generally expected that a student will take courses in more than 1 subject matter heading of the social sciences; but with the approval of his committee a student may concentrate his work under a single subject matter heading.

¹A student desiring to meet the foreign language requirements in another language may do so in unusual cases with the permission of his committee.

B. AMERICAN STUDIES PROGRAM: The courses included in the program must deal with the economic, geographical, governmental, historical, and sociological development of the United States. Each student's program, as determined by his committee on the basis of his undergraduate preparation and teaching needs, must include courses from a minimum of 3 subject matter headings in the social sciences.

Undergraduate preparation for a social science minor: a minor of 24 semester hours in social science as defined at Northwestern State University, or the equivalent.

Special requirements for a social science minor: a minimum of 9 semester hours.

Research papers in lieu of a thesis may be written in courses marked with an asterisk (*). They must be prepared in addition to all regularly assigned course work. Permission to write a research paper must be specifically requested at the time of enrollment or within 1 week of enrollment in a course. Approval will be granted by the instructor only if the preparation of the student in the field concerned is sufficient to indicate success in independent research of thesis quality. Students should not begin research papers during their first semester of graduate study.

Courses of Instruction

SOCIAL STUDIES

All members of the Department.

For Undergraduates Only

101. INTRODUCTION TO THE SOCIAL STUDIES. 3 hours. Survey of cultural behavior—description and analysis of principal elements and forces, biologic bases, including race; communication, economy, government, religion, esthetics.

102. INTRODUCTION TO THE SOCIAL STUDIES. 3 hours. Major cultural behavior groups—principal emphasis on those of the Western World; intergroup relationships stress on forms of nationalism and imperialism.

For Undergraduates and Graduates

***303. LOUISIANA STUDIES.** 3 hours. Louisiana in the South and the Nation; the natural landscape; exploration and colonization by Europeans; economic, social, and political development during the French, Spanish, and American periods; Louisiana and Southern industrialization.

406. GREAT ISSUES. 3 hours. Major contemporary American and world problems; analysis of their origins and a survey of proposals for their solution. Prerequisite: senior standing or permission of instructor.

410. SOCIAL STATISTICS. 3 hours. Application of statistical methods to social research; organization and graphic presentation of social data; interpretation and analysis of social statistics.

***411. AMERICAN SECTIONALISM AND REGIONALISM.** 3 hours. Problems of regional planning; American regions, with special emphasis on problems of resource conservation and development.

412. SPECIAL PROBLEMS. 3 hours. Specialized work under faculty supervision. In general, a student must present definite evidence that his proposal is essential to a contemplated program in a graduate school. Prerequisites: major or minor in social science, senior standing, and consent of instructor.

For Graduates Only

***501. READING COURSE IN SOCIAL STUDIES.** 3 hours. Reading and research on special topics in social studies. Prerequisite: consent of instructor.

***502. RESEARCH IN LOUISIANA SOCIAL STUDIES.** 3 hours. Survey and analysis of source materials; research; preparation of materials; especially designed for teachers with experience in teaching Louisiana social studies. Prerequisite: consent of instructor.

***503. FIELD COURSE IN LOUISIANA SOCIAL STUDIES.** 3 hours. A refresher course for persons with undergraduate work and/or teaching experience in Louisiana social studies involving on-campus lectures and a minimum of 2 weeks of field work; emphasis on individual research and personal observation. Prerequisite: 303 and consent of instructor.

***504. RESEARCH IN THE LITERATURE OF THE SOCIAL STUDIES.** 3 hours. Introduction to types of research and research techniques in the social studies; survey and evaluation of principal source materials; critical study of current research.

598. THESIS. Maximum, 6 hours.

FIELD STUDY COURSES IN SOCIAL STUDIES¹

For Undergraduates Only

120F. STUDIES IN EASTERN ANGLO-AMERICA. 3 or 6 hours.

121F. STUDIES IN WESTERN ANGLO-AMERICA. 3 or 6 hours. Field study tours of selected regions of the United States and adjacent lands involving 21 or more days of travel and a minimum distance of 5,000 miles. Text study and a term paper are required for each three semester hours credit desired.

130F. FOREIGN AREA STUDIES. 3 or 6 hours. Field study tours of selected areas outside Anglo-America involving 21 or more days of overseas travel. Text study and a term paper are required for each three semester hours credit desired.

For Undergraduates and Graduates

320F. ADVANCED STUDIES IN EASTERN ANGLO-AMERICA. 3 or 6 hours.

321F. ADVANCED STUDIES IN WESTERN ANGLO-AMERICA. 3 or 6 hours. Extended field study tours of selected areas in the United States and Canada. Lectures, readings, and personal observation are employed to further understanding of the basic aspects of American life. Reading, text study and a research paper are required for each 3 semester hours credit desired.

430F. ADVANCED FOREIGN AREA STUDIES. 3 or 6 hours. Extended field study tours of selected overseas areas. Lectures, reading and personal observation are combined to acquaint the student with the lives and problems of people of distant lands and their relationship to our own. Areas selected will vary from year to year. Reading, text study and a research paper are required for each 3 semester hours of credit.

¹All tours are offered annually and involve a minimum of 21 days travel. Interested persons may take the tours without credit. On any tour, undergraduates and graduates may secure 6 hours credit in social studies or geography or in a combination of the 2. No undergraduate student may use more than 6 hours credit in field courses to meet minimum degree requirements. Credit in field study courses may not be used in substitution for other courses specifically designated by number in any curriculum. No graduate student may use more than 3 semester hours in field study courses to meet minimum requirements for a graduate degree. For further details, communicate with the head of the Department of Social Sciences.

ANTHROPOLOGY

Curry, Gregory.

Undergraduate Requirements

Required for a major (Liberal Arts): 201, 202, 301, 302, 408, and 15 additional hours selected from anthropology—30 semester hours. Other requirements: Geology 103, 104; social sciences, 6 hours.

Required for a minor (except Education): 201, 202, and 12 hours selected from anthropology—18 semester hours.

Courses of Instruction

For Undergraduates Only

201. GENERAL ANTHROPOLOGY. 3 hours. Survey of the science of anthropology with emphasis on physical principles.

202. GENERAL ANTHROPOLOGY. 3 hours. Continuation of 201 with emphasis on the evolution of culture.

For Undergraduates and Graduates

***301. PRIMITIVE CULTURES.** 3 hours. Social organization of pre-literate culture groups; emphasis on major aboriginal and folk cultures of the Americas. Prerequisite: 202 or Social Studies 101.

302. PRINCIPLES OF ARCHEOLOGY. 3 hours. Concepts and methods of archeology; the role of archeology in the social sciences; emphasis on problems in North American prehistory. Prerequisite: 201 or consent of instructor.

303. THE NORTH AMERICAN INDIAN. 3 hours. Ethnology of the Indian tribes of the United States and Canada; major culture areas at the time of European contact; contemporary social and economic conditions. Prerequisite: junior standing.

304. INDIANS OF THE SOUTHEASTERN UNITED STATES. 3 hours. Ethnology of major Indian tribes; emphasis on Indians of Louisiana and their neighbors. Prerequisite: junior standing.

***310. THE DYNAMICS OF CULTURE.** 3 hours. Processes of cultural stability, internal change, cultural diffusion, and acculturation.

***311. PRINCIPLES OF ETHNOLOGY.** 3 hours. Concepts and methods of studying contemporary folk cultures; ethnological approaches to types of cultural expression such as mythology and folklore, arts and crafts, kinship systems, architecture, and music. Prerequisite: 202 or consent of instructor.

406. SPECIAL PROBLEMS. 3 hours. Prerequisites: minor in anthropology, senior standing, and consent of instructor.

408. ANTHROPOLOGICAL THEORY. 3 hours. Development of ethnological thought in its historical context. Prerequisites: senior standing and 12 semester hours in anthropology.

410. FIELD PROBLEMS IN ARCHEOLOGY. 6 hours. Techniques and materials of archeological excavation; field surveying and recording; care and interpretation of material; field work in Louisiana. Lecture 1 hour, laboratory-field work 18 hours. Prerequisites: 201, 302, and junior standing.

GEOGRAPHY

Brown, Culp, Eversull, Knipmeyer, Nichols, Stokes

Undergraduate Requirements

Required for a major (Liberal Arts): 101, 102, 201, 202, 305, 309, and 12 additional hours in geography—30 semester hours. Other requirements: Geology 103, 104; Social Studies 101, 102.

Required for a minor (except Education): 201, 305, and 12 additional hours in geography, 6 of which must be on the junior-senior level—18 semester hours.

Graduate Requirements for the Master of Arts

Undergraduate preparation for a major: 33 semester hours in the social sciences, including Geography 201, 202 (or the equivalents), and 6 additional hours in geography; demonstrated proficiency in French or German, or 12 semester hours of undergraduate credit or the equivalent in one of these languages.¹

Special requirements for a major: 598; 12 semester hours of geography, including 309, 406, 590.

Undergraduate preparation for a minor: 18 semester hours in the social sciences, including 6 hours of geography.

Special requirements for a minor: 12 semester hours of advanced courses.

Courses of Instruction

For Undergraduates Only

101. WORLD GEOGRAPHY. 3 hours. Nations and peoples of the world surveyed in terms of their natural environments, cultural backgrounds, and characteristics.

102. WORLD GEOGRAPHY. 3 hours. Continuation of 101.

201. PRINCIPLES OF PHYSICAL GEOGRAPHY. 3 hours. Earth and the solar system; elements of physical geography and bases of natural regionalism; weather and climate; landforms; hydrography; vegetation; soils; minerals.

202. PRINCIPLES OF CULTURAL GEOGRAPHY. 3 hours. Earth and man; elements of cultural geography; population distribution; settlement types and patterns; the regional concept; economic and political regions.

206. ECONOMIC GEOGRAPHY. 3 hours. Extractive, agricultural, pastoral, manufacturing, and distributive activities; emphasis on locational factors in the United States and the Western World. Prerequisite: 201.

211. GEOGRAPHIC TECHNIQUES. 2 hours. Tools and techniques of geography and laboratory exercise in their use. Prerequisite: registration in or credit for 201.

For Undergraduates and Graduates

***300. THE ARABIC WORLD.** 3 hours. Major natural and cultural regions; colonialism; economic, religious, and political importance of the region; emphasis on the Middle East. Prerequisite: 201 or consent of instructor.

***301. THE ASIATIC WORLD.** 3 hours. Major natural and cultural regions; Asia and the impact of modern Western culture.

¹A student desiring to meet the foreign language requirement in another language may do so in unusual cases with the permission of his committee.

302. LAND FORMS. 3 hours. Origin and development of land forms and drainage patterns. Prerequisite: 201 or Geology 103.

***304. THE AFRICAN WORLD.** 3 hours. Major natural regions; principal cultures; Africa and European colonialism; historic and modern significance of the continent south of the Sahara.

***305. GEOGRAPHY OF ANGLO-AMERICA.** 3 hours. Major natural and cultural regions; world position.

***306. GEOGRAPHY OF EUROPE.** 3 hours. Major natural and cultural regions, analysis and characterization of present political units; continental and world relations of major countries.

307. METEOROLOGY. 3 hours. Elements of weather and climate; climatic controls; weather maps and forecasting.

***308. GEOGRAPHY OF LATIN AMERICA.** 3 hours. World significance and relations; major natural and cultural regions; analysis of individual countries; Pan-Americanism.

309. CARTOGRAPHY. 3 hours. Map projections and their construction; presentation of data on maps and map interpretation.

317. CLIMATOLOGY. 3 hours. Bases of climatic classification; major systems; world climatic regions. Prerequisite: 307.

***320. CONSERVATION OF NATURAL RESOURCES.** 3 hours. Principles and problems of conservation in relation to the natural resources of the United States. Prerequisite: junior standing.

***402. POLITICAL GEOGRAPHY.** 3 hours. The state and its areal expression; type and functional classification of the present divisions of the world; factors in the delimitation of states; evolution of the present nation-states system; areal aspects and problems of super-state organizations.

404. SPECIAL PROBLEMS. 3 hours. Prerequisites: major or minor in geography; senior standing; and consent of instructor.

***405. HISTORICAL GEOGRAPHY OF THE UNITED STATES.** 3 hours. Settlement of the nation; geographic factors and the growth of major economic pursuits. Prerequisites: 6 hours of geography, including 305; 6 hours of American history.

406. FIELD METHODS IN CULTURAL GEOGRAPHY. 3 hours. Application of field techniques in cultural geography; observation, tabulation, and analysis of landscape data in written reports and maps. Lecture 1 hour, laboratory 4 hours. Prerequisite: consent of instructor.

***407. THE SOUTHERN UNITED STATES.** 3 hours. The natural environment, resources, settlement, land use, industrial development, and regional organization of the American South. (Formerly Social Studies 402.)

408. GEOMORPHOLOGY. 3 hours. Principal geomorphic systems and the erosional processes that develop them. Prerequisites: Geology 103, 104, and Geography 302; although not required, Geology 304 is especially recommended.

409. ADVANCED CARTOGRAPHY. 3 hours. Map projections; qualitative and quantitative representation; special individualized problems. Prerequisite: 309 or consent of instructor.

499. PRINCIPLES OF EARTH SCIENCE FOR TEACHERS. 4 hours. Intensive survey of the earth sciences, with emphasis on meteorology and geology; basic properties of the atmosphere, lithosphere, and hydrosphere, and

processes affecting them. Lecture 3 hours, laboratory 3 hours. Prerequisite: consent of instructor.

For Graduates Only

501. THE DEVELOPMENT OF GEOGRAPHIC THOUGHT. 3 hours. Origin and evolution of major geographic concepts and the various schools of geographic thought; survey of geographic literature.

521. WORKSHOP IN LOUISIANA'S NATURAL RESOURCES. 3 hours. Natural resources of Louisiana, and approved procedures used in their conservation. Prerequisite: consent of instructor.

***580. SEMINAR IN PHYSICAL GEOGRAPHY.** 3 hours. Reading and research on selected topics in physical geography. Prerequisite: consent of instructor.

***590. SEMINAR IN CULTURAL GEOGRAPHY.** 3 hours. Reading and research on special topics in cultural geography. Prerequisite: consent of instructor.

598. THESIS. Maximum, 6 hours.

FIELD STUDY COURSES IN GEOGRAPHY¹

For Undergraduates Only

121F. CULTURAL GEOGRAPHY OF EASTERN UNITED STATES. 3 hours.

122F. PHYSICAL GEOGRAPHY OF EASTERN UNITED STATES. 3 hours.

123F. CULTURAL GEOGRAPHY OF WESTERN UNITED STATES. 3 hours.

124F. PHYSICAL GEOGRAPHY OF WESTERN UNITED STATES. 3 hours.

Field study tours of selected regions of the United States and Canada, involving a minimum of 5,000 miles of travel, designed to acquaint the student with the major geographic features of the nation. Text study and a term paper is required for each 3 semester hours credit desired.

131F. CULTURAL GEOGRAPHY OF OVERSEAS AREAS. 3 hours.

132F. PHYSICAL GEOGRAPHY OF OVERSEAS AREAS. 3 hours.

Field study tours of areas outside Anglo-America designed to introduce the student to important foreign regions and their principal geographic features. Text study and a term paper are required for each 3 semester hours credit desired.

303F. GEOGRAPHY OF LOUISIANA. 3 hours. A 12-day field study involving approximately 2,000 miles of travel and personal observation of Louisiana landscape; stress on New Orleans and environs, the Lafourche-Barataria areas, and the Teche country.

¹All tours are offered annually and involve a minimum of 21 days travel. Interested persons may take the tours without credit. On any tour, undergraduates and graduates may secure 6 hours credit in social studies or geography or in a combination of the two. No undergraduate students may use more than 6 hours credit in field study courses to meet minimum degree requirements. Credit in field study courses may not be used in substitution for other courses specifically designated by number in any curriculum. No graduate student may use more than 3 semester hours credit in field study courses to meet minimum requirements for a graduate degree. For further details, communicate with the head of the Department of Social Sciences.

For Undergraduates and Graduates

321F. CULTURAL REGIONS IN EASTERN UNITED STATES. 3 hours.

322F. NATURAL REGIONS IN EASTERN UNITED STATES. 3 hours.

323F. CULTURAL REGIONS IN WESTERN UNITED STATES. 3 hours.

324F. NATURAL REGIONS IN WESTERN UNITED STATES. 3 hours.

Extended field study tours of selected major geographic regions of the United States and Canada. A fuller understanding of the natural and cultural regionalism in the nation is provided through lectures, reading and personal observation. The climatic, physiographic, geologic, economic and other bases of American life are examined at first hand. Areas selected vary from year to year. Reading, text study, and a research paper are required for each 3 semester hours credit desired.

431F. CULTURAL REGIONS IN OVERSEAS AREAS. 3 hours.

432F. NATURAL REGIONS IN OVERSEAS AREAS. 3 hours.

Extended field study tours of geographic areas outside Anglo-America. Areas to be studied, such as Northwestern Europe, Mediterranean Europe, Central and South America, will be varied from year to year. Lectures, reading, and field investigation are designed to increase understanding of the natural and cultural setting of representative foreign regions. Reading, text study, and a research paper are required for each 3 semester hours credit desired.

PHILOSOPHY¹

Snowden

Undergraduate Requirements

Required for a minor (Liberal Arts): 201, 203, 303, 304, and 6 additional hours of philosophy—18 semester hours.

Courses of Instruction

For Undergraduates Only

201. INTRODUCTION TO PHILOSOPHY. 3 hours. Themes, attitudes, and problems present in the work of leading philosophers. Prerequisite: sophomore standing.

202. ETHICS. 3 hours. Comparison and contrast of leading ethical theories and their relation to practical morality.

203. LOGIC. 3 hours. Standards of reasoning, inductive and deductive, which allow of well-ordered schemes of knowledge in the various sciences.

For Undergraduates and Graduates

***303. HISTORY OF PHILOSOPHY: ANCIENT AND MEDIEVAL.** 3 hours. Growth and development of the major problems and systems of ancient and medieval thought; the work of Plato, Aristotle, the Stoics, Augustine and Aquinas examined. Prerequisite: 201.

***304. HISTORY OF PHILOSOPHY: MODERN.** 3 hours. Origins of the theoretical concerns of the rationalists and empiricists; the German phi-

¹No course in philosophy may be used in the School of Education to meet major, minor or core requirements.

osophy; transitions to the contemporary philosophical scene. Prerequisite: 201.

***305. HISTORY OF PHILOSOPHY: CONTEMPORARY.** 3 hours. Major movements in contemporary continental and Anglo-American philosophy; phenomenology, existentialism, linguistic and logical analysis. Prerequisites: 201 and 303 or 304.

***403. ESTHETICS.** 3 hours. Philosophy of esthetic experience; relation between integrity in self and in art; exploration of boundaries of art and science. Prerequisite: 3 hours of philosophy or consent of instructor.

***406. BASIC PROBLEMS IN PHILOSOPHY.** 3 hours. Directed study and research on special topics in philosophy; emphasis on selected philosophers and on areas of specialization in philosophy. Prerequisite: 6 semester hours of philosophy.

***408. CLASSICAL POLITICAL PHILOSOPHY.** 3 hours. (Same as Political Science 414.)

***409. MODERN POLITICAL PHILOSOPHY.** 3 hours. (Same as Political Science 415.)

POLITICAL SCIENCE

Chen, Knotts, Milner, Nahm, Ried

Undergraduate Requirements

Required for a major (Liberal Arts): 201, 202, 301, 309, 401, and 15 hours, 3 of which must be in political theory and the remainder distributed between American and international studies with 9 hours in 1 area and 3 in the other—30 semester hours. Other requirements: social science, 6 hours.

For a minor (except Education): 201, 202, 301, and 9 hours selected from advanced political science courses.

Graduate Requirements for the Master of Arts

A major is not offered.

Undergraduate preparation for a minor: 18 semester hours in the social sciences, including 9 hours of political science.

Special requirements for a minor: 12 semester hours in political science.

Courses of Instruction

For Undergraduates Only

201. GOVERNMENT OF THE UNITED STATES. 3 hours. Federal government in the United States; governmental machinery and present tendencies toward modification; emphasis on political parties and party governments. Prerequisite: sophomore standing.

202. STATE AND URBAN GOVERNMENT. 3 hours. State and urban government in the 50 states with emphasis on southern and Louisiana government and politics.

450. AMERICANISM AND COMMUNISM. 1 hour. Origins and development of Americanism and Communism; analysis and comparison of the 2 systems. Prerequisite: junior standing.

For Undergraduates and Graduates

301. SCOPE AND METHODS OF POLITICAL SCIENCE. 3 hours. Methods of political science and content and scope of the discipline. Prerequisite: 201.

***302. POLITICAL PARTIES.** 3 hours. The party process and institutions with special emphasis on American developments. Prerequisite: 201.

306. PUBLIC ADMINISTRATION. 3 hours. Principles and processes of administering public policies; emphasis on problems of personnel, finance, organization, and extent of bureaucratic responsibility.

***309. CONSTITUTIONAL LAW.** 3 hours. Major Supreme Court decisions interpreting the United States Constitution.

***310. THE JUDICIAL PROCESS.** 3 hours. The American judiciary; special attention to quasi-judicial functions and administrative law. Prerequisite: 309.

***311. THE LEGISLATIVE PROCESS.** 3 hours. Legislative procedure in Congress and other law-making bodies; emphasis on the committee system. Prerequisite: 309 or consent of instructor.

***312. THE EXECUTIVE PROCESS.** 3 hours. Administrative procedures in the executive branch of government; the Presidency; independent regulatory commissions. Prerequisite: 309 or consent of instructor.

***313. URBAN GOVERNMENT.** 3 hours. Problems and scope of urban government and politics in the contemporary period. Prerequisites: 201 and 202, or consent of instructor.

401. COMPARATIVE GOVERNMENT: EUROPE. 3 hours. Contemporary government of European nations; emphasis upon the United Kingdom, France, U.S.S.R. and West Germany; similarities and differences in relation to the United States. Prerequisite: 201.

***402. COMPARATIVE GOVERNMENT: ASIA AND AFRICA.** 3 hours. Contemporary governments and political institutions of the nations of Asia and Africa. Prerequisite: 401.

***403. COMPARATIVE GOVERNMENT: LATIN AMERICA.** 3 hours. Major political systems of Latin America and the role of Latin America in international affairs.

409. INTERNATIONAL RELATIONS I. 3 hours. Major theories of international relations as applied to 20th century society; emphasis upon relations among the major European powers and upon the post World War I period.

410. INTERNATIONAL RELATIONS II. 3 hours. Role of the nations of Asia and Africa in world affairs; examination of the international problems created by newly emerging nations. Prerequisite: 409 or consent of instructor.

***411. INTERNATIONAL LAW.** 3 hours. Theories of international law, classic and modern, and their development; analysis of modern problems and procedures including international legislation, pacific settlement of disputes, sources and evidences of international law, war crimes trials. Prerequisite: 9 hours of government or consent of instructor.

412. THE GOVERNMENT OF THE SOVIET UNION. 3 hours. Introduction to the contemporary Russian attempt to make a workable social system out of Russia's interpretation of Marxian socialism; stress on the interaction between Russian traditions and the combination of improved ideology and natural environment.

***414. CLASSICAL POLITICAL THEORY.** 3 hours. Principal developments in political theory from antiquity to the Renaissance. (Same as Philosophy 408). Prerequisites: junior standing and consent of instructor.

***415. MODERN POLITICAL THEORY.** 3 hours. Principal developments in political theory from the Renaissance to the present. (Same as Philosophy 409). Prerequisites: junior standing and consent of instructor.

***416. SPECIAL PROBLEMS.** 3 hours. Reading and research on selected topics in the areas of American government and international relations. Prerequisites: major or minor in government and senior standing; or consent of instructor.

***417. INTERNATIONAL ORGANIZATIONS.** 3 hours. Development of concepts of international organization; modern political, military and economic organizations; emphasis on the United Nations and related agencies. Prerequisite: 12 hours of government or consent of instructor.

***419. PROPAGANDA AND PUBLIC OPINION.** 3 hours. Nature of and techniques used in propaganda and public opinion; role of social agencies in opinion formation; analysis of current publications and textbooks. Prerequisite: Social Studies 101 or equivalent.

For Graduates Only

515. READINGS IN POLITICAL SCIENCE. 3 hours. Special readings for a major or minor in social or political science.

560. AMERICAN POLITICAL INSTITUTIONS AND PROCESSES. 3 hours. Seminar in 1 of the following topics: the Presidency; the legislative process; political parties; political behavior.

***580. SEMINAR IN INTERNATIONAL RELATIONS.** 3 hours. Reading and research on selected topics in international relations.

***590. SEMINAR IN AMERICAN GOVERNMENT.** 3 hours. Reading and research on selected topics in American government.

SOCIOLOGY AND SOCIAL WORK

MILLARD J. BIENVENU, *Professor and Department Head*

Associate Professor: Galloway;

Assistant Professors: Day, Ellis, Keenan, Noles

SOCIOLOGY

Undergraduate Requirements

Required for a major in sociology (Liberal Arts): 100, 101, 202, 304, 306, 400, 405, 408, 416, and 6 hours selected from sociology or anthropology—31 semester hours. Other requirements: social sciences, 6 hours.

Required for a minor in sociology (except Education): 101, 202, 405, and 9 hours selected from sociology including, if desired, not more than 3 hours in anthropology—18 semester hours.

Graduate Requirements for the Master of Arts

Undergraduate preparation for a minor in sociology: 18 semester hours in the social sciences, including 9 hours of sociology.

Special requirements for a minor in sociology: 12 semester hours in sociology.¹

Courses of Instruction

For Undergraduates Only

100. ORIENTATION TO SOCIOLOGY AND SOCIAL WORK. 1 hour. Designed to orient the student to the fields of sociology and social work. Team teaching approach used to help the student determine his major area of interest academically and vocationally.

101. PRINCIPLES OF SOCIOLOGY. 3 hours. Human social relationships and social processes; emphasis on the functioning of familial, recreational, religious, economic, political, and other social groups in contemporary society. Prerequisite: sophomore standing. (Formerly 201.)

202. SOCIAL PROBLEMS. 3 hours. Social problems of modern life, especially those related to changes in social organization; crime; racial conflicts; economic maladjustments resulting from modern industrialization; urbanization and population trends. Prerequisite: sophomore standing.

400. PSYCHOLOGY OF INTERPERSONAL COMMUNICATION. 3 hours. Role of communication in interpersonal relations; communication theory, concepts, and principles. Skills and techniques of dynamic communication with their applicability to marriage, family and social interaction. Prerequisite: junior standing or consent of instructor.

411. SPECIAL PROBLEMS. 3 hours. Prerequisites: major or minor in sociology; senior standing; and consent of instructor. (Scheduled only by arrangement with instructor.)

420. RESEARCH DESIGN AND SOCIAL MEASUREMENT. 3 hours. Methods in scientific social research; tools and techniques of measurement and presentation of data. Prerequisites: senior standing and consent of instructor.

For Undergraduates and Graduates

***304. CRIMINOLOGY AND PENOLOGY.** 3 hours. Definition, incidence, and significance of crime in modern society; factors leading to crime; application of criminal law through police and courts, and the treatment of convicted criminals. Prerequisite: 101 or consent of instructor.

***306. SOCIAL PSYCHOLOGY.** 3 hours. The individual in relation to

¹Anthropology 301 and Social Studies 410 may be included in the minor if desired.

society; socialization and personality development. Prerequisite: 101 or Psychology 101. (Same as Psychology 306).

***307. RURAL SOCIOLOGY.** 3 hours. Rural society, its organization and institutions; population trends and composition; patterns of settlement; social processes and changing character. Prerequisite: 101 or consent of instructor.

***308. URBAN SOCIOLOGY.** 3 hours. The city as the nucleus of modern industrial society; urban institutions, population, ecology, and problems. Prerequisite: 101 or consent of instructor.

***309. JUVENILE DELINQUENCY.** 3 hours. Deviant behavior in children; extent, causes, and control of juvenile delinquency as a social problem. Prerequisite: 6 hours of sociology or consent of instructor.

***405. MODERN MARRIAGE AND FAMILY LIFE.** 3 hours. Organization and disorganization of the modern family; emphasis on necessary information, skills, and attitudes for successful marriage and family life. Prerequisite: junior standing or consent of instructor.

***408. RACE AND CULTURE RELATIONS.** 3 hours. Race as a biological and cultural concept; analysis of the status of minority groups in contemporary societies; emphasis on conditions in the United States. Prerequisite: 101 or consent of instructor.

***412. INTRODUCTION TO SOCIOLOGICAL THEORY.** 3 hours. Schools of sociological theory and their relationships; theories of European and American sociologists. Prerequisites: 101, junior standing or consent of instructor.

***413. INDUSTRIAL SOCIOLOGY.** 3 hours. Human relations in industry; the occupational system and social relations in the urban, industrial society. Prerequisite: 101 or consent of instructor.

***414. GERONTOLOGY.** 3 hours. Aging and retirement in American society; changes, social policies, and reviews of research. Prerequisite: 6 hours of sociology or consent of instructor.

***415. MEDICAL SOCIOLOGY.** 3 hours. Review of sociological research into the organization and administration of health care services; status, roles, and activities of health care personnel; health care organizations as social institutions. Prerequisite: 6 hours of sociology or consent of instructor.

***416. DEMOGRAPHY AND POPULATION PROBLEMS.** 3 hours. Principles of population change, distribution and composition; population factors as related to economic, political, geographic, and sociological conditions. Special emphasis on the United States. Prerequisite: 202 or consent of instructor.

***417. POLITICAL SOCIOLOGY.** 3 hours. Political behavior, ideologies, and governmental structures viewed from a sociological perspective. Prerequisite: 6 hours of sociology or consent of instructor.

For Graduates Only

502. SEMINAR IN DEVIANT BEHAVIOR. 3 hours. Problems of crime and delinquency as a form of deviant behavior; dynamics and extent of crime and delinquency. Evaluation of prevention, control, and treatment methods. Prerequisite: consent of instructor.

***590. SEMINAR IN SOCIOLOGY.** 3 hours. Reading and research on special topics in sociology. Prerequisite: consent of instructor.

***591. SEMINAR IN THE FAMILY.** 3 hours. The changing status and problems of the modern family as a social institution. Prerequisite: consent of instructor.

SOCIAL WORK

Undergraduate Requirements

Required for a major in social work (Liberal Arts): Social Work 303, 305, 407, 409, 418, 419 and Sociology 100, 101, 202, 306, 400, 405—34 semester hours. Other requirements:¹ Social Studies 101; Political Science 201, 202; History 201, 202; Office Administration 101, 102; Economics 201 and 205 or elective.

Courses of Instruction

For Undergraduates Only

407. SOCIAL WELFARE AS A SOCIAL INSTITUTION. 3 hours. Public and private methods of care for the poor, ill, and socially disadvantaged; historical perspective for contemporary approaches to social welfare. Prerequisite: Sociology 101.

409. SOCIAL WORK METHODS. 3 hours. Basic concepts and methods used in group work, community organizations, administration, and social action; personnel in social work settings. Prerequisite: Sociology 101 or consent of instructor.

418. INTRODUCTION TO CASEWORK. 3 hours. Concepts, theories, and processes of social casework; emphasis on principles and techniques of interviewing. Prerequisite: senior standing or consent of instructor.

419. FIELD WORK. 3 hours. Actual supervised practice as case-aides and social work assistants in social welfare agencies and/or correctional institutions. Course work entails 6-8 hours a week of actual practice and 1-2 hours weekly in a seminar to integrate theory and practice. Prerequisite: senior standing or consent of instructor.

422. SELF DEVELOPMENT FOR SOCIAL WORK. Credit. Use of the laboratory approach in helping the student assess and enhance his capacity for working effectively with people in social work settings. Through a group approach, focus will be on self-understanding, interpersonal communication, and the effective use of self in human relations. Prerequisites: senior standing with desire for graduate social work training and/or consent of instructor.

For Undergraduates and Graduates

***303. PROBLEMS OF CHILD WELFARE.** 3 hours. Biological and environmental factors affecting the personality development and social adjustment of children. Prerequisite: Sociology 101 or consent of instructor.

***305. COMMUNITY ORGANIZATION AND LEADERSHIP.** 3 hours. Methods by which various activities and agencies work together in a community to provide for recreation, health, or other activities. Prerequisite: Sociology 101.

421. PRINCIPLES OF FAMILY GROUP COUNSELING. 1 hour. The role of family interviewing in the helping professions; emphasis on basic principles of family group counseling and an understanding of intrafamily communication. Prerequisite: 418 or consent of instructor.

For Graduates Only

501. PRACTICUM IN CORRECTIONS. 3 hours. Field experiences designed to provide the student with an opportunity to apply academic training and gain experience in practical situations. Course setting includes experience with adult and juvenile correctional institutions, probation and parole officers,

¹These requirements are in lieu of a minor in this curriculum.

juvenile and family courts, law enforcement and social welfare agencies. Prerequisite: consent of instructor.

503. CASEWORK TECHNIQUES IN CORRECTION. 3 hours. Casework techniques in correctional settings with emphasis on interviewing and basic counseling concepts. Prerequisite: consent of instructor.

SPEECH AND JOURNALISM

EDNA WEST, *Professor and Department Head*

Associate Professors: Adams, Taylor; *Assistant Professors:* Basham, Cote, Hennigan, Presson, Schexnider, Stewart; *Instructor:* Whitehead.

JOURNALISM

Undergraduate Requirements

JOURNALISM—GENERAL

For a major (Liberal Arts): 30 semester hours, including 202, 251, 252, 303, 305 or 306, 401, 405, 410 or 415 or 416, and 3 hours of editing.

Special requirements: English 320, 400; History 201, 202; Office Administration 101 or ability to type; Political Science 201, 202; Speech 101.

For a minor (except in Education): at least 18 semester hours, including 202, 251, 252, 303, and 3 hours in editing.

For a minor (Education): 202, 251, 252, 305, 306, and 3 hours in editing—18 semester hours.

For a minor in Communications (except in Education): Journalism 251, 306, 420; Speech 101, 201, 212, 341; 3 hours selected from journalism, sociology, or speech—24 semester hours. (Not open to journalism majors.)

JOURNALISM—ADVERTISING

For a major (Liberal Arts): 202, 251, 304, 306, 345, 351, 352, 405, and 6 hours of journalism electives—30 semester hours.

Special requirements: English 320, 400; History 201, 202; Office Administration 101 or ability to type; Political Science 201, 202; Speech 101.

For a minor (except in Education): 202, 251, 304, 306, 351, 352—18 semester hours.

JOURNALISM—BROADCAST NEWS

For a major (Liberal Arts): 202, 208, 251, 252, 303, 304, 405, 440, and 6 hours of journalism electives—30 semester hours.

Special requirements: English 320, 400; History 201, 202; Office Administration 101 or ability to type; Political Science 201, 202. Also required: a minor in Speech consisting of Speech 101, 102, 201, 321, 341, 345, and 6 hours of speech electives—24 semester hours.

For a minor (except in Education): 202, 208, 251, 304, 345, and 440—18 semester hours.

JOURNALISM—NEWS EDITORIAL

For a major (Liberal Arts): 202, 208, 251, 252, 303, 304, 401, 405, and 6 hours of journalism electives—30 semester hours.

Special requirements: English 320, 400; History 201, 202; Office Administration 101 or ability to type; Political Science 201, 202; Speech 101.

For a minor (except in Education): 202, 208 or 209, 251, 252, 303 and 306—18 semester hours.

JOURNALISM—PUBLIC RELATIONS

For a major (Liberal Arts): 202, 208 or 209, 251, 252, 304, 306, 401, 420, and 6 hours of journalism electives—30 semester hours.

Special requirements: English 320, 400; History 201, 202; Office Administration 101 or ability to type; Political Science 201, 202; Speech 101.

For a minor (except in Education): 202, 208 or 209, 251, 252, 304, and 306—18 semester hours.

Courses of Instruction

For Undergraduates Only

202. INTRODUCTION TO JOURNALISM. 3 hours. Mass communications media, including problems and vocational opportunities. Prerequisite for majors and minors to all other journalism courses.

208. NEWSPAPER EDITING. 3 hours. Purposes, methods and techniques of news editing.

209. HOUSE ORGAN EDITING. 3 hours. Purposes, methods and techniques of editing yearbooks and other publications.

251. NEWSPAPER REPORTING. 3 hours. Basic newswriting. Prerequisites: 202, ability to type.

252. ADVANCED NEWSPAPER REPORTING. 3 hours. Advanced newswriting. Lecture 2 hours, laboratory 2 hours. Prerequisite: grade of C or higher in 251.

298. NEWSPAPER STAFF PRACTICUM. 1 hour. Supervised activity on the University newspaper. Maximum of 4 hours of credit over a period of 4 semesters may be earned. Prerequisite: for majors and minors, credit for or enrollment in 251; for other students, consent of instructor.

299. YEARBOOK STAFF PRACTICUM. 1 hour. Supervised activity on the University yearbook. Maximum of 4 hours of credit over a period of 4 semester may be earned.

303. HISTORY OF AMERICAN JOURNALISM. 3 hours. History of American mass communications media; collateral reading.

304. COMMUNICATION LAW. 3 hours. Legal limitations and privileges affecting publishing, broadcasting, and advertising.

305. SUPERVISION OF SCHOOL PUBLICATIONS. 3 hours. Journalism in the high school curriculum; special emphasis on the newspaper and yearbook.

306. PUBLIC RELATIONS. 3 hours. Public relations activities; business functions, research techniques, promotion, publicity, house organs.

324. FUNDAMENTALS OF NEWSPAPER PRODUCTION. 3 hours. Newspaper production by letterpress and offset processes; newspaper typography, make-up, design, and style. (Same as Industrial Education 324.)

345. BASIC TELEVISION TECHNIQUES. 3 hours. Television equipment and studio practices. Practice with television cameras, microphones, dollies; television terminology. Special work with University television facilities. Prerequisite: sophomore standing. (Same as Speech 345.)

351. ADVERTISING I. 3 hours. Roles, techniques, and purposes of advertising; introduction to advertising use of various media.

352. ADVERTISING II. 3 hours. Media planning, trademarks; advertising research, layout, campaigns, and management; retail and industrial advertising; laws relative to advertising. Term project required. Prerequisite: 351.

401. FEATURE WRITING. 3 hours. Writing and preparing feature stories for magazines and newspapers; markets.

404. THE COMMUNITY NEWSPAPER. 3 hours. Problems and techniques of the weekly newspaper.

405. COMMUNICATIONS APPRENTICESHIP. 3 hours. Work as an apprentice staff member of a mass communications medium. Periodic reports

and term paper required. Prerequisite: grade of C or higher in 252, or consent of instructor.

408. FUNDAMENTALS OF PHOTOGRAPHY. 3 hours. Camera and darkroom techniques; editorial handling of photographs. Prerequisite: 251 or consent of instructor.

410. ADVANCED FEATURE WRITING. 3 hours. Continuation of 401. Prerequisite: 401.

415. PRESS THEORY AND PRACTICE. 3 hours. Mass media, with emphasis on the rights, responsibilities, organization, and operation of the media, and research.

416. DEPTH REPORTING. 3 hours. In-depth newswriting. Lecture 1 hour, laboratory 4 hours. Prerequisite: 252 or consent of instructor.

420. ADVANCED PUBLIC RELATIONS. 3 hours. Application of principles surveyed in 306.

440. RADIO-TELEVISION NEWSCASTING. 3 hours. Practice in writing and reporting radio and television news; preparation of material for presentation, including background for reporting special events on the air; processing of local and wire service news. Prerequisites: 251, Speech 341 and 345; or equivalents. (Same as Speech 440).

SPEECH

Undergraduate Requirements

For a major (Liberal Arts): At least 30 semester hours, including 101, 102, 201, 205 or 301, 231 or 232, 321, and 351 or 353.

For a major (Education): At least 34 semester hours, including 101, 102, 201, 205, 231, 232, 321, 350 or 351, 353, 432; and, in addition, credit in speech activity 11, 12, 31, 32, or their equivalents.

For a minor: 24 semester hours including 101, 102, 201 and 321. The remaining 12 hours, to be approved by the department head, must represent at least 2 of the following fields: discussion and debate (212, 205); drama (231, 232, 432); radio and television (341, 342, 345, 440); speech science (350, 351, 353).

For a minor in Communication (except in Education): Speech 101, 201, 212, 341; Journalism 251, 306, 420; 3 hours selected from journalism, sociology, or speech—24 semester hours. (Not open to speech majors.)

Graduate Requirements

1. For the Master of Arts

Undergraduate preparation for a major: 24 semester hours of speech, including 101, 201 or 205, 231 and 321, or their equivalents; 6 semester hours of credit in foreign language on the sophomore level, or a reading knowledge of the language.

Special requirements for a major: a thesis plus at least 15 semester hours of speech; or if a thesis is not submitted, a minimum of 21 semester hours of speech, including seminar, problems, or laboratory courses; 1 course from each of at least 3 of the following areas: drama, history of speech, oral interpretation, public address, radio, and speech science; oral examination to demonstrate speaking proficiency.

Undergraduate preparation for a minor: 12 semester hours in speech.

Special requirement for a minor: oral examination to demonstrate speaking proficiency.

2. For the Master of Arts in Education

Undergraduate preparation for a major: 24 semester hours in speech, including 101, 201 or 205, 231, 321, or their equivalents.

Special requirements for a major: 350, 351 or 353, 301 or 405; 331 or 441, 432 or 532; oral examination to demonstrate speaking proficiency.

Undergraduate preparation for a minor: 12 semester hours in speech.

Special requirements for a minor: a research project in speech; oral examination to demonstrate speaking proficiency.

Courses marked with an asterisk (*) are those courses in which formal written reports in lieu of a thesis may be submitted.

Courses of Instruction

For Undergraduates Only

101. FUNDAMENTALS OF SPEECH. 3 hours. Development of desirable habits for normal speech situations; training in effective use of voice, oral language, and bodily actions; basic principles of speech composition. Prerequisite for majors and minors to all other speech courses.

102. VOICE AND DICTION. 3 hours. Physiological mechanics of oral sounds; technical analysis of voice quality. Special exercises to develop accurate placement and correct manner of production of vocal sounds.

201. PUBLIC SPEAKING. 3 hours. Preparation and delivery of extemporaneous speeches; selecting and arranging material; principles of speech composition; audience analysis; techniques of effective delivery.

205. ARGUMENTATION AND DEBATE. 3 hours. Principles of argumentation; phrasing, analyzing and proving the proposition; methods of proof; fallacies in logic; refutation; elements of persuasion; brief-drawing; preparation of forensics; delivery; actual practice in debating.

210. PARLIAMENTARY PROCEDURE. 3 hours. Legislative assembly and conference; group organization and formal discussion with practice in parliamentary procedure and subsidiary small group discussion.

212. DISCUSSION. 3 hours. Principles, purposes, and types of discus-sional speaking; practice in informal discussion, round-table, panel, symposium, and assembly chairmanship.

230. THEATRE APPRECIATION. 3 hours. Introduction to theatre as an art; general principles of dramatic production with emphasis on observational experiences.

231. PLAY PRODUCTION. 3 hours. Fundamentals of stagecraft; practical experience in scene design, construction, and painting; lighting; make-up; costuming; stage management; work on University Theatre and experimental productions.

232. ACTING. 3 hours. Actor's media, bodily movement, vocal tones and dialogue, and their application to the stage; analysis of theories of acting and techniques of make-up; experience in acting and make-up in laboratory productions.

300. PROBLEMS IN COMMUNICATION. 3 hours. Diagnosis and treatment of individual difficulties in written and oral communication. Taught jointly by members of the departments of Languages and Speech and Journalism. Credit in this course adds 3 hours to degree requirements. Prerequisites: junior standing and recommendation by dean and adviser, or consent of instructor. (Same as English 300.)

305. ADVANCED ARGUMENTATION AND DEBATE. 3 hours. Principles of argumentation, methods of proof, and refutation. Methods of case construction, argumentative speech composition, psychology of argument. Practice in debate; principles of judging. Prerequisite: 205.

321. INTERPRETATION. 3 hours. Training in the art of reading aloud; selection and arrangement of materials for oral interpretation; program planning for public presentation.

330. SUMMER THEATRE WORKSHOP. 9 hours. Training and experience in all phases of theatrical production; emphasis on problems in acting and staging; public performance of full-length plays; experimental production of 1-act plays. Prerequisite: consent of the director.

336. PLAY WRITING. 3 hours. Dramatic forms, creative writing and presentation of original plays.

341. INTRODUCTION TO RADIO. 3 hours. Microphone technique, continuity writing and announcing; practical experience in studio control-room operations for broadcasting.

342. RADIO WORKSHOP. 3 hours. Continuation of 341. Special problems in radio broadcasting; extensive reading, reports, and practice. Prerequisite: 341 or consent of instructor.

345. BASIC TELEVISION TECHNIQUES. 3 hours. Practical experience; television terminology; assignments with University television facilities and studio equipment. Prerequisite: sophomore standing. (Same as Journalism 345.)

346. ADVANCED TELEVISION TECHNIQUES. 3 hours. Continuation of 345, with special attention to particular problems of telecasting; special projects with University television facilities. Prerequisites: 345 and 341, or consent of instructor.

SPEECH ACTIVITIES

No more than 6 semester hours of credit may be earned in any combination of extra-curricular activities.

11. DEBATING. 1 hour.

12. DEBATING. 1 hour. Prerequisite: 11.

13. DEBATING. 1 hour. Prerequisite: 12.

21. CHORAL READING. 1 hour.

22. CHORAL READING. 1 hour. Prerequisite: 21.

23. CHORAL READING. 1 hour. Prerequisite: 22.

31. DRAMATICS. 1 hour. Projects providing experience in acting, staging, or directing; credit based upon the amount of work and the proficiency in performance.

32. DRAMATICS. 1 hour. Prerequisite: 31.

33. DRAMATICS. 1 hour. Prerequisite: 32.

41. RADIO. 1 hour. Projects to provide experience in announcing, radio acting and producing, remote broadcasting, script writing, and program management.

42. RADIO. 1 hour. Prerequisite: 41.

43. RADIO. 1 hour. Prerequisite: 42.

For Undergraduates and Graduates

***301. RHETORICAL THEORY AND PRACTICE.** 3 hours. From Greek times to the present; criticism and evaluation of outstanding orators and orations; practical application to speech composition and delivery.

***331. ADVANCED PLAY PRODUCTION.** 3 hours. Problems and stylized designs in staging. Prerequisite: 231 or its equivalent.

332. ADVANCED ACTING. 3 hours. Emphasis on character roles and styles of acting; public performances. Prerequisite: 232 or its equivalent.

333. LIGHTING FOR STAGE AND TELEVISION. 3 hours. Elementary principles of illumination; characteristics and control of light and color and their application to the media of stage and television. Prerequisite: 231 or its equivalent, or consent of instructor.

334. COSTUMES AND MAKE-UP. 3 hours. Brief history of costumes and make-up used in various types of theatrical productions; designing and constructing costumes on a limited budget as well as for spectacular productions; styles of make-up and their application to different characterizations; practical work in both areas. Prerequisite: 231 or its equivalent, or consent of instructor.

***337. HISTORY OF THE THEATRE.** 3 hours. The theatre from the classic Greek to the modern American; relation of representative plays to the physical stage in theatrical history. Prerequisite: consent of instructor.

350. SPEECH PROBLEMS IN THE CLASSROOM. 3 hours. Causes, symptoms, and treatment of speech disorders; methods of correcting common defects of speech and of recognizing problems that should be referred to specialists.

351. PHONETICS. 3 hours. Analysis of speech sounds; practice in the use of phonetic transcription; comparison of phonetic symbols with dictionary diacritics; application of phonetics to American pronunciation.

353. BASES OF SPEECH AND HEARING. 3 hours. Sciences on which speech and hearing are based — physiology, neurology, physics, linguistics, genetics, psychology, phonetics, and semantics.

405. DIRECTING FORENSIC ACTIVITIES. 3 hours. Principles of organizing and directing a program of high school forensics; theory and practice of tournament debate and individual events; analyzing, planning, and conducting tournaments. Designed for teachers in secondary schools. Prerequisite: consent of instructor.

***421. THEORY OF ORAL READING.** 3 hours. Problems of oral interpretation; training in the selection, arrangement, and cutting of novels and plays for interpretative readings. Prerequisite: 321 or consent of instructor.

432. PLAY DIRECTION. 3 hours. Factors involved in play selection; methods of casting; procedures for rehearsals; problems of directing; practical experience in the direction and public presentation of 1-act plays. Prerequisites: for speech majors and minors, 231 and 232 or their equivalent; for other students, consent of instructor.

437. MODERN DRAMA. 3 hours. Trends in dramatic literature based on works of outstanding dramaturgists from Ibsen to the present. (Same as English 437.)

440. RADIO-TELEVISION NEWSCASTING. 3 hours. Practice in writing and reporting radio and television news; preparation of material including background for reporting special events on the air; processing of local and

wire service news for radio and television. (Same as Journalism 440.) Prerequisites: 341 and 345, or equivalents.

441. DIRECTING RADIO ACTIVITIES. 3 hours. Theory and practice in the organizing and directing of radio programs for classes, schools, and community organizations. Prerequisite: consent of instructor.

445. TELEVISION SCRIPT WRITING AND PROGRAM PLANNING. 3 hours. Script writing, techniques of program planning for educational telecasts, and production of educational broadcasts. Designed to assist student teachers, supervisors, and program directors in utilizing the medium in schools or in commercial radio and television stations. Prerequisites: 345, 346, and 341, or consent of instructor.

446. DIRECTING TELEVISION ACTIVITIES. 3 hours. Practical application of Speech 445 with emphasis on rehearsing and telecasting educational programs. Prerequisite: 445 or consent of instructor.

495F. UNITED STATES THEATRE CENTERS. 1-6 hours. Study tours of selected centers of theatrical activity in the United States.

496F. FOREIGN THEATRE CENTERS. 1-6 hours. Study tours of selected centers of theatrical activity abroad.

For Graduates Only

***532. STAGE DIRECTION IN THE EDUCATIONAL THEATRE.** 3 hours. Methods of supervising dramatic activities in elementary and secondary schools; organization of dramatic clubs, direction of school plays, equipment of school stages. Prerequisite: Education 402 or 404 or teaching experience.

***537. DRAMA: ITS THEATRICAL BACKGROUNDS AND ALLIED ARTS.** 3 hours. Aspects of various forms of dramatic production, their historical significance, and their relation to allied arts of music, dance, and design; basic concepts involved in dramatic criticism. Prerequisite: consent of instructor.

***563. PSYCHOLOGY OF SPEECH.** 3 hours. Origin of speech and language; psychological aspects of speech; interrelationship between speech and personality. (Same as Psychology 563 and Special Education 563.)

***590. SEMINAR IN DRAMATURGY.** 3 hours. Modern trends in dramatic literature and theatrical production.

***595. RESEARCH PROBLEMS.** 1-4 hours per semester, maximum of 6 hours allowed toward a degree.

598. THESIS. Maximum, 6 hours.

COLLEGE OF NURSING



COLLEGE OF NURSING

PEGGY LEDBETTER, *Dean*

Philosophy of the College of Nursing

The College of Nursing shares the philosophy of Northwestern State University which "endeavors to give its students foundations in 3 broad areas: the education tools—knowledge, skills, understanding and attitudes—necessary to function successfully in occupational fields; the appreciations needed to achieve greater happiness and satisfaction from life; and the service concept of responsibility to others."

The faculty of the College of Nursing subscribes to a philosophy of education which recognizes the dignity, worth, and individuality of the learner. We believe that education is a process providing opportunities for development and cultivation of personal and professional potentialities. We believe that learning is manifested by change in behavior involving the way in which an individual thinks and feels as well as acts.

The essence of professional nursing is a commitment to serve humanity. The professional nurse believes in the worth and dignity of all people and is committed to the maintenance and promotion of health in individuals and society. Recognizing the interrelatedness of physiological homeostasis, psychological equilibrium and sociocultural interaction, the nurse creatively applies scientific facts, theories, and principles in assisting individuals to maintain or establish an optimum state of health.

The professional nurse is morally and legally responsible for nursing care rendered. Nursing actions and judgments are based on scientific facts, theories and principles and are within the limits of laws regulating nursing practice. The maintenance of competence in practice is the personal responsibility of each practitioner.

The professional nurse provides quality nursing care which is determined by changes in scientific development and changes in the health needs of society. Therefore, the professional nurse incorporates new techniques and knowledge in health care as these develop and continually updates and expands the body of knowledge on which nursing practice is based.

Objectives

The College of Nursing provides educational experiences which equip individuals with competence for becoming professional practitioners of nursing and responsible contributing members of their profession and community. It also provides foundations for further professional study and self-actualization.

Graduates will be prepared to:

1. Exercise judgment in planning, implementing, and evaluating nursing care based on the needs of the patient.
2. Demonstrate knowledge of natural and behavioral science principles basic to the understanding of human beings.
3. Be self-directive in expanding knowledge and skills related to personal and professional development.
4. Cooperatively and productively interact with other health team members and citizen groups in promoting and maintaining health.
5. Assume the responsibility for sharing knowledge which contributes to optimum patient care.

Accreditation

The College of Nursing is accredited nationally by the National League for Nursing, and in the state by the Louisiana State Board of Nurse Examiners.

REQUIREMENTS FOR THE BACHELOR'S DEGREE

A. General Requirements

1. Minimum of 123 semester hours of academic work exclusive of physical education activity and extra-curricular activity credits.
2. **The senior year in residence.**
3. A minimum of 30 semester hours in residence.
4. Two quality points (an average grade of C) for each semester hour of credit pursued, including a C average in the major field. Even though a student may have earned some of his credits at other institutions, he still must achieve the minimum average grade of C on credits earned at Northwestern State University.

B. Core Requirements

1. Twelve semester hours in the general field of English.
2. Three semester hours in mathematics.
3. Twelve semester hours in science, 6 in biological and 6 in physical science.
4. Thirteen semester hours in social science, including Political Science 450.
5. Three semester hours in psychology.
6. Two physical activity credits, including P.E. 1.
7. Orientation.

C. Professional Requirements

Required for the nursing major: 104, 308, 309-309Z, 313-313Z, 323-323Z, 328, 335, 420-420Z, 433-433Z, 442, 446-446Z, 447-447Z—61 semester hours.

Shreveport Campus

Students spend the first 2 years on the Natchitoches campus and the last 2 years on the Shreveport campus where educational and living facilities are maintained.

Clinical experiences are provided in the following hospitals and agencies with which the University has contractual agreements: T. E. Schumpert Memorial Hospital, Veteran's Administration Hospital, Confederate Memorial Medical Center, Willis-Knighton Memorial Hospital, and the Caddo-Shreveport and Bossier Parish health units of the State Department of Health. In addition, other agencies are utilized during specific courses to enhance the educational experiences of students.

Northwestern State University, within the legal structure of the State Board of Education and the State Board of Nurse Examiners, exercises complete control of the nursing education program.

Admission of Registered Nurses

Registered Nurses who are graduates of accredited associate degree or diploma programs may be admitted to the College of Nursing. Nurses seeking admission must be currently registered in at least 1 state and meet the admission requirements of the University and of the College of Nursing. The length of time needed to complete degree requirements will be determined on an individual basis. Advanced standing in specific nursing courses may be earned on the basis of proficiency examinations established by the College of Nursing.

Special Admission, Retention, Promotion And Graduation Policies

The following statements relating to Admissions, Retention, Promotion and Graduation in the College of Nursing, and particularly the terms "probation" and "dismissal" and their derivatives, are not to be construed as in conflict with or superseding policies issued by the State Board of Education. These statements reflect additional requirements of a professional curriculum involving human health and safety.

Criteria for admission. Students who indicate Nursing as the choice of major will be registered in the College of Basic Studies during the freshman year.

1. Admission Without Condition. Students who meet the following criteria will be admitted to the College of Nursing without condition, at the beginning of the second year.

a. State of Health: evaluated as good or excellent on the medical record, on information of past health history and on personal record of the applicant observed during the freshman year.

b. Admission Testing: an ACT composite score of 17 or above.

c. Academic Achievement: at least an over-all C average on a minimum of 30 semester hours during the first year at Northwestern and/or other educational institutions.

2. Conditional Admission. An applicant failing to meet one or more of the criteria for admission as stated above may be admitted to the College of Nursing on conditional status.

3. Removal from Conditional Admission Status. The student admitted conditionally for academic reasons will be removed from conditional status if during the first full semester following admission he achieves a C average on all hours pursued. If he fails to do so he will remain on conditional status.

The student on conditional status in his second full semester must achieve a C average on all hours pursued. If he fails to do so he is subject to dismissal from the College of Nursing.

Any student admitted conditionally to the College of Nursing for reasons other than academic will remain in this status until completion of the next full semester. At that time his record will be reviewed and the course of action to be taken will be determined.

Criteria For Retention. Students in the College of Nursing must maintain a 2.0 or C average at all times and consistently demonstrate professional compatibility.

1. Academic Probationary Status

a. Any student deficient in quality points will be placed on academic probation.

b. Hours pursued during summer sessions as well as those pursued during regular semesters will be included in determining the cumulative quality point average.

c. Academic probationary status will continue until such time as the quality point deficiency is removed.

d. Once on academic probation, the student will not be permitted to proceed in the sequential program of studies if he accrues additional quality point deficiencies.

e. Any student who earns 2 D's in clinical nursing courses or contributory nursing science courses at any level (2 courses in 1 semester or 1

course in each of 2 consecutive semesters) will be subject to dismissal from the College of Nursing. A clinical nursing course is defined as one in which the major part of the course involves direct nurse-patient contact.

2. Professional Probationary Status. In some instances a student may be placed on professional probationary status when the student has demonstrated a lack of professional compatibility. Such a probationary status serves as a warning that the student may be dismissed from the College of Nursing at any time.

Professional compatibility is demonstrated by the student when he consistently:

a. Reflects application of theoretical knowledge in the nurse-patient relationship, the acquisition of which is demonstrated by written tests; and reflects increasing skill in the care of patients, as measured by observation by the instructor in any practicum.

b. Demonstrates the ability to relate effectively with peers, patients, and members of the health team.

c. Demonstrates the ability to perceive his role as a student in relation to others, i.e., in group living and with authority figures.

d. Demonstrates personal integrity, emotional stability, and conformance with accepted social mores.

3. Dismissal from the College of Nursing. The continuance of each student in the College of Nursing shall be subject to the discretion of the University and the College of Nursing. The College of Nursing may require the withdrawal of a student at any time for any reason deemed sufficient. A student may be dismissed from the College of Nursing when his consistently unsatisfactory performance has revealed the improbability of his meeting the requirements for graduation and subsequent licensure to practice professional nursing. Ordinarily, a student will not be dismissed from the program without previous notice to the student and his parents or guardian of the possibility of such action.

A grade of C is the minimum satisfactory standard of achievement in nursing courses at all times. Withdrawal from the College of Nursing may be required if the student does not maintain a C average in his major, or if he receives an F in any clinical nursing course.

4. Appeal. A student in the College of Nursing has the right to appeal any decision regarding his status. This request for appeal is made to the Dean of the College of Nursing who will determine the course of action to be taken.

Criteria for Promotion

1. Promotion to the Shreveport Campus. A student will be unconditionally promoted to the Shreveport Campus who has

a. Completed all of the freshman and sophomore courses as required by the curricular pattern, with an over-all C average.

b. Earned at least a C in the introductory nursing courses.

c. Earned at least a C in microbiology.

d. No more than 1 D in the same subject area, e.g., chemistry, English, or zoology.

Records of students who do not meet the criteria for unconditional promotion to the Shreveport campus will be reviewed to determine the course of action to be taken.

2. Promotion on the Shreveport Campus. A student will be unconditionally promoted on the Shreveport campus who has

a. An over-all C average.

- b. At least a C in all nursing courses.

Records of students who do not meet the above criteria will be reviewed to determine whether they should be promoted conditionally or if another course of action should be taken.

Criteria for Graduation. Criteria for graduation from the College of Nursing are:

1. The student must meet the academic requirements as established by the program of studies printed in the University Catalogue and the College of Nursing Bulletin.
2. The student must demonstrate the qualities of professional competence and compatibility as defined by the College of Nursing and demonstrate potential for safe performance as a licensed professional nurse.

COLLEGE OF NURSING

NURSING (451)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Chemistry 107-107L	4	Chemistry 108	3
English 101	3	English 102	3
Mathematics 103 or 105	3	Home Economics 103	3
Psychology 101	3	Psychology 205	3
Zoology 122-122L	4	Speech 101	3
Orientation	1	Zoology 123-123L	3
	18		18

SOPHOMORE YEAR

Nursing 104	3	Microbiology 206-206L	4
English literature	3	Philosophy 201	3
History or political science	3	Political Science 450	1
Physics 111	3	Psychology 445	3
Sociology 101	3	Sociology 405	3
Physical Education 1	1	Physical education	1
	16		15

SUMMER

Nursing 308	3
Nursing 309-309Z	5
	8

JUNIOR YEAR

Nursing 313-313Z	9	Nursing 323-323Z	9
Nursing 328	3	Nursing 335	3
	12		12

SENIOR YEAR

Nursing 420-420Z	6	Nursing 442	2
Nursing 433-433Z	6	Nursing 446-446Z	6
	12	Nursing 447-447Z	6
			14

Total hours for degree, 125.

General Education	64
Nursing	61

COLLEGE OF NURSING

PEGGY LEDBETTER, *Dean*Charles A. Buhler, *Assistant to the Dean*

Associate Professors: Calendar, Ledbetter; *Assistant Professors:* Dickerson, Gates, Hicks, Hill, Pingrey, Riley, Rosenwasser, Torres, Williamson; *Instructors:* Casey, Downs, Everett, Graves, Hayes, Hiern, Hille, Lambert, Langston, Lipsey, Minter, Moseley, Payne, Rogers, Ross, Simmons. *Librarian:* Geers.

COURSES IN PROFESSIONAL NURSING

104. INTRODUCTION TO PROFESSIONAL NURSING. 3 hours. Theoretical and philosophical approach to professional nursing; emphasis on developing an understanding of social, economic, and professional responsibilities of the nurse.

308. MEDICAL SCIENCE. 3 hours. Fundamental pathological processes occurring in man; introduction to diagnosis and treatment.

309. FUNDAMENTALS OF NURSING. 5 hours. Designed to develop an understanding of fundamental nursing activities. Corequisite: registration in 309Z.

309Z. FUNDAMENTALS OF NURSING LABORATORY. Credit only. Supervised laboratory practice to augment 309.

313. MATERNAL-CHILD NURSING. 9 hours. Designed to develop an understanding of the nursing care of mothers and children. Corequisite: registration in 313Z.

313Z. MEDICAL-CHILD NURSING LABORATORY. Credit only. Supervised laboratory practice to augment 313.

323. MEDICAL-SURGICAL NURSING. 9 hours. Designed to develop an understanding of nursing care of adults with medical-surgical conditions. Corequisite: registration in 323Z.

323Z. MEDICAL-SURGICAL NURSING LABORATORY. Credit only. Supervised laboratory practice to augment 323.

328. AN HISTORICAL PERSPECTIVE OF TRENDS IN PROFESSIONAL NURSING. 3 hours. Trends and development of nursing within the context of historical periods; emphasis on the individual's responsibility to the profession and to the community.

335. ETHICS. 3 hours. Philosophical principles of ethics as they apply to professional nursing practice.

420. PSYCHIATRIC NURSING. 6 hours. Dynamic and pathologic aspects of mental disorders; emphasis on psychiatric nursing principles and therapeutic interpersonal techniques utilized in the care of the emotionally disturbed. Corequisite: registration in 420Z.

420Z. PSYCHIATRIC NURSING LABORATORY. Credit only. Supervised laboratory practice to augment 420.

433. PUBLIC HEALTH NURSING. 6 hours. Introduction to public health services; emphasis on the nurse's role in a community health program. Corequisite: registration in 433Z.

433Z. PUBLIC HEALTH NURSING LABORATORY. Credit only. Supervised laboratory practice to augment 433.

442. INTRODUCTION TO RESEARCH IN NURSING. 2 hours. Introduction to research in nursing including components of research design; emphasis on developing the ability to read critically and evaluate research reports in nursing.

446. LEADERSHIP IN NURSING. 6 hours. Principles basic to effective leadership in professional nursing; emphasis on planning, organizing, and implementing nursing care for a group of patients utilizing administrative principles. Corequisite: registration in 446Z.

446Z. LEADERSHIP IN NURSING LABORATORY. Credit only. Supervised laboratory practice to augment 446.

447. ADVANCED NURSING. 6 hours. Analysis of complex problems related to the care of adults and/or children with chronic or acute illness. Assists the students to use previous background and/or new knowledge in a comprehensive application of principles of nursing. Corequisite: registration in 447Z.

447Z. ADVANCED NURSING LABORATORY. Credit only. Supervised laboratory to augment 447.

FINGERPRINTS, FOOTPRINTS, AND VOICE PATTERNS AS METHODS IDENTIFICATION IN RELATED AND UNRELATED FAMILIES

DEPARTMENTS:

Agricultural Sciences

Biological Sciences

Chemistry

Geology

Industrial Education and Technology

Mathematics

Microbiology

Physics

I. PURPOSE:

THE PURPOSE OF THIS PROJECT IS TO SEE IF TWO RELATED FAMILIES WILL HAVE THE SAME TYPE OF FINGERPRINTS, FOOTPRINTS, AND VOICE PATTERNS.

IV. RESULTS:

ALL RESULTS WERE LOCATED AT THE SITE OF THE PROJECT.

V. CONCLUSION:

THE RESULTS OF THIS PROJECT WERE THAT THE FINGERPRINTS, FOOTPRINTS, AND VOICE PATTERNS OF TWO RELATED FAMILIES WERE NOT THE SAME.

II. PROCEDURE

—VOICE PATTERNS

A. COLLECTED VOICES OF TWO FAMILIES
B. VOICES WERE TAPE
C. VOICES WERE THEN
D. VOICES WERE THEN
E. VOICES WERE THEN

TWO TYPES OF ADAPTATIONS

SEE PAGE

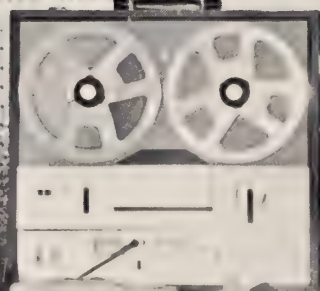
III. PROCEDURE

—FINGERPRINTS

A. THE FINGERPRINTS OF TWO FAMILIES WERE COLLECTED
B. THE FINGERPRINTS WERE THEN TAPE
C. THE FINGERPRINTS WERE THEN
D. THE FINGERPRINTS WERE THEN
E. THE FINGERPRINTS WERE THEN

—FOOTPRINTS—

PROCEDURES FOR
FOOTPRINTS ARE THE
SAME AS FOR
FINGERPRINTS



COLLEGE OF SCIENCE
AND TECHNOLOGY

COLLEGE OF SCIENCE AND TECHNOLOGY

RENE J. BIENVENU, *Dean*

REQUIREMENTS FOR THE BACHELOR'S DEGREE

A. General Requirements

1. A minimum of 120 hours of academic work, exclusive of physical activity and extra-curricular activity credits.

2. The senior year in residence.

3. A minimum of 30 semester hours in residence.

4. Two quality points (an average grade of C) for each semester hour of credit pursued, including a C average in the major field and in the minor field. Even though a student may have earned some of his credits in other institutions, he still must achieve the minimum average of C on credits earned at Northwestern State University.

5. The completion of a major and a minor, each as defined by the department concerned, except in the departments of Agricultural Sciences and Industrial Education and Technology and in the Medical Technology, Radiologic Technology, and Wildlife Management curricula where no minor is required.

NOTE: early in their college program students should consult heads of departments in which they are taking their minors.

B. Core Requirements¹

1. Twelve semester hours of oral and written English and literature, including 101 and 102 and at least 3 hours of literature.

2. Six semester hours in mathematics.

3. Twelve semester hours in science, 6 in physical, and 6 in biological. Sequential courses must be used to satisfy the biological science requirement: Biology 101-101L, 102-102L; 111, 112; or Microbiology 111, 112.

4. Thirteen semester hours in social sciences, including Political Science 450.

5. Psychology 101.

6. Health 102 and 4 physical activity credits, including PE 1.²

7. Orientation.

REQUIREMENTS FOR THE ASSOCIATE DEGREE

(Two-Year Programs)

A. General Requirements

1. A C average on all courses used to satisfy degree requirements, and a C average on all courses taken at Northwestern State University which are used to satisfy degree requirements.

2. A minimum of 30 semester hours of degree requirements in residence.

¹General core requirements do not apply to the several curricula in agricultural sciences and industrial education technology; nor to the curricula in botany, chemistry, medical technology, microbiology, physics, radiologic technology, wildlife management, and zoology.

²One military science course may be applied for each required physical education activity credit, except PE 1.

B. Special Requirements

On the following pages special requirements are given in the approved curricula for Associate Degree programs in:

Chemical Technology
Drafting Technology
Electronics Technology

Printing Technology
Tool and Die Design Technology
Woodworking Technology

C. Special Requirements

Special requirements are given in the curricula on the following pages. In all these curricula, the special requirements usually duplicate some of the core requirements.

Each lecture course and related laboratory course is a combination taught as a unit; the 2 courses must be taken concurrently. If 1 is dropped, the other must be dropped at the same time. If either course in such a lecture/laboratory combination is failed, it may be repeated without repeating the other.

AGRICULTURAL SCIENCES DEPARTMENT

AGRI-BUSINESS (602)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Agriculture 104	3	Agriculture 105	3
Biology 101-101L	3	Botany 210-210L	3
English 101	3	English 102	3
Mathematics	3	Mathematics	3
Speech	3	Psychology 101	3
Physical Education 1	1	Physical education	1
Orientation	1		—
	17		16

SOPHOMORE YEAR

Accounting 205	3	Accounting 206	3
Chemistry 103-103L	4	Agricultural Economics 211	3
Economics 201	3	Business Economics 212	3
English or Speech	3	Chemistry 104-104A or B	4
Microbiology 206-206L	4	Plant and Soil Science 210-210L	4
Physical education	1	Physical education	1
	18		18

JUNIOR YEAR

Animal Science 200-200L	3	Accounting 308	3
Animal Science 306	3	Biology or Chemistry	3-4
Biology 327	3	Business elective ¹	3
Organic chemistry	4	Political Science 450	1
Health Education 202	1	Social science	3
Social science	3	Zoology 300-300L or 301-301L..	4
	17		17-18

SENIOR YEAR

Agricultural Economics 400	3	Agriculture 490	1
Agricultural science ²	6	Agricultural Economics 411	3
Business electives ¹	6	Agricultural science ²	6
Approved elective	3	Business elective ¹	3
	18	Approved elective	3
			16

Total hours for degree, 137-138.

¹Selected from Accounting 301, Business Economics 325, Finance 310, 315, 411, Management 322, Marketing 323.

²Selected from Plant and Soil Science 340-340L, 416-416L, 431, Animal Science 304, 311, 314, 404 and Agricultural Economics 300.

AGRICULTURAL SCIENCES DEPARTMENT

ANIMAL SCIENCE (605)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Agriculture 104	3	Agriculture 105	3
Chemistry 103-103L	4	Biology 101-101L	3
English 101	3	Chemistry 104-104A or B	4
Mathematics 103	3	English 102	3
Physical Education 1	1	Mathematics 109	3
Orientation	1	Physical education	1
	—		—
	15		17

SOPHOMORE YEAR

Animal Science 200-200L	3	Agricultural Economics 211	3
Animal Science 218-218L	3	Animal Science 217-217L	4
Biology 102-102L	3	Plant and Soil Science 210-210L ..	4
Chemistry, organic	4	Microbiology 206-206L	4
Economics 201	3	Psychology 101	3
Health 202	1	Physical education	1
Physical education	1		—
	—		19
	18		

JUNIOR YEAR

Agricultural Science or Business ¹ ..	3	Agricultural Science or Business ¹ ..	3
Animal Science 306	3	Animal Science 304	3
Plant and Soil Science 335-335L ..	3	Animal Science elective	2-3
Biology 327	3	Social science	3
English or Speech	3	Speech	3
Social science	3	Zoology 300-300L or 301-301L ..	4
	—		—
	18		18-19

SENIOR YEAR

Agricultural Economics 400	3	Agricultural Science or Business ¹ ..	3
Agricultural Science or Business ¹ ..	3	Animal Science 407-407L	4
Animal Science 404	3	Animal Science elective	2-3
Animal Science 415	3	Agriculture 490	1
Political Science 450	1	Biology, Chemistry	
Elective ²	3	or Mathematics	3
	—	Elective ²	3
	16		—
			16-17

Total hours for degree, 137-139.

¹Selected from Accounting 205, 206, 308; Agricultural Economics 300, 411; Finance 310, 315; Management 322; Marketing 323; Plant and Soil Science 416-416L, 431.

²Selected with approval of the adviser.

AGRICULTURAL SCIENCES DEPARTMENT

GENERAL AGRICULTURE (603)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Agriculture 104	3	Agriculture 105	3
Biology 101-101L	3	Botany 210-210L	3
English 101	3	English 102	3
Mathematics	3	Mathematics	3
Speech	3	Psychology 101	3
Physical Education 1	1	Physical education	1
Orientation	1		—
	17		16

SOPHOMORE YEAR

Animal Science 200-200L	3	Agricultural Economics 211	3
Forestry 111-111L	3	Plant and Soil Science 210-210-L	4
Chemistry 103-103L	4	Accounting 205	3
Economics 201	3	Chemistry 104-104A or B	4
Microbiology 206-206L	4	English or Speech	3
Physical education	1	Physical education	1
	18		18

JUNIOR YEAR

Animal Science 306	3	Animal Science 304	3
Plant and soil science ¹	3-4	Plant and soil science ¹	3-4
Biology 327	3	Business elective ²	3
Health Education 202	1	Political Science 450	1
Organic chemistry	4	Social science	3
Social science	3	Zoology 300-300 L or 301-301L ..	4
	17-18		17-18

SENIOR YEAR

Agricultural Economics 400	3	Agriculture 490	1
Agricultural science ¹	2-4	Agricultural Economics 411	3
Plant and Soil Science 416-416L	4	Agricultural science ¹	9
Plant and Soil Science 431	3	Business elective ²	3
Business elective ²	3	Approved elective	3
Approved elective	3		—
	18-20		19

Total hours for degree, 140-144.

¹Selected with the approval of the adviser.

²Selected from Accounting 206, 308, Business Economics 325, Finance 310, 315, Management 322, Marketing 323.

AGRICULTURAL SCIENCES DEPARTMENT

PLANT AND SOIL SCIENCE (604)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Agriculture 104	3	Agriculture 105	3
Chemistry 103-103L	4	Biology 101-101L	3
English 101	3	Chemistry 104-104A or B	4
Mathematics 103	3	English 102	3
Physical Education 1	1	Mathematics 109	3
Orientation	1	Physical education	1
	15		17

SOPHOMORE YEAR

Botany 210-210L	3	Agricultural Economics 211	3
Economics 201	3	Plant and Soil Science 210-210L	4
English or Speech	3	Microbiology 206-206L	4
Organic chemistry	4	Social science	3
Psychology 101	3	Speech	3
Physical education	1	Physical education	1
	17		18

JUNIOR YEAR

Animal Science 306	3	Plant and Soil Science 332-332L	3
Plant and soil science ¹	3-4	Plant and soil science ¹	6-7
Biology 327	3	Social science	3
Botany 309-309L	4	Zoology 300-300L or 310-301L ..	4
Business, Agricultural science, or Science ²	3		16-17
Health Education 202	1		
	17-18		

SENIOR YEAR

Agricultural Economics 400	3	Agriculture 490	1
Plant and Soil Science 416-416L	4	Plant and Soil Science 428	3
Plant and Soil Science 431	3	Biology, Chemistry or Mathematics	3-4
Plant and soil science ¹	3	Botany 403-403L	4
Political Science 450	1	Business, Agricultural science or Science ²	3
Approved elective	3	Approved elective	3
	17		17-18

Total hours for degree, 134-137.

¹Agronomy option: student will select 12-14 semester hours of courses from the Agronomy Section with the approval of the adviser.

Horticulture option: student will select 12-14 semester hours of courses from the Horticulture Section with the approval of the adviser.

²Selected from Accounting 205, 206, 308, Business Economics 325, Finance 310, 315, Management 322, Marketing 323, Botany 214-214L, 402-402L, Chemistry 211-211L, 212-212L, or approved courses in Agricultural Science.

AGRICULTURAL SCIENCES DEPARTMENT

PRE-FORESTRY (657)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Forestry 111-111L*	3	Botany 210-210L	3
Biology 101-101L*	3	Engineering Drafting 106-106L	3
English 101*	3	English 102*	3
Geography 201 or History 201..	3	Geography 202 or History 202 ..	3
Mathematics 103	3	Mathematics 109	3
Physical Education 1*	1	Speech 101*	3
Orientation	1	Physical education*	1
	17		19

SOPHOMORE YEAR

Forestry 215-215L*	3	Forestry 216-216L*	3
Botany 214-214L	3	Plant and Soil Science 210-210L	4
Chemistry 103-103L*	4	Botany 312-312L	3
Mathematics 217*	4	Chemistry 104-104A or B*	4
Political Science 201	3	Zoology 300-300L	4
	17		18

*Courses usually required in schools of forestry. Others may be selected to complete a normal course load. It is recommended that students consult with the adviser in the selection of electives.

AGRICULTURAL SCIENCES DEPARTMENT

PRE-VETERINARY MEDICINE' (661)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Agriculture 104	3	Animal Science 320	3
Biology 101-101L	3	Biology 102-102L	3
Chemistry 103-103L	4	Chemistry 104-104A or B	4
English 101	3	English 102	3
Mathematics 103	3	Mathematics 109	3
Physical Education 1	1	Physical education	1
Orientation	1		—
	—		17
	18		

SOPHOMORE YEAR

Animal Science 404	3	Chemistry 302-302L	4
Chemistry 301-301L	4	English or Technical Writing 222	3
English	3	History 202	3
History 201	3	Physics 204-204L	4
Physics 203-203L	4	Political Science 202	3
Political Science 201	3		—
	—		17
	20		

¹Students should consult the catalogue of the school of veterinary medicine they wish to attend to determine if any additional courses are needed.

AGRICULTURAL SCIENCES DEPARTMENT

PRE-VOCATIONAL AGRICULTURAL EDUCATION¹ (662)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Agriculture 104	3	Agriculture 105	3
Chemistry 103-103L	4	Biology 101-101L	3
Education 102	3	Chemistry 104-104A or B	4
English 101	3	English 102	3
Mathematics 103	3	Mathematics 109	3
Physical Education 1	1	Physical education	1
Orientation	1		—
	—		17
	18		

SOPHOMORE YEAR

Animal Science 200-200L	3	Agricultural Economics 211	3
Animal Science 218-218L	3	Plant and Soil Science 210-210L	4
Animal Science 320	3	English	3
Botany 210-210L	3	History 201	3
Chemistry 203-203L	4	Speech 101	3
Physical education	1	Physical education	1
	—		—
	17		17

JUNIOR YEAR

Agricultural Economics 300	2	Animal Science 304	3
Agricultural Economics 400	3	English	3
Animal Science 404	3	General Metals 102-102L	3
Plant and Soil Science 335-335L	3	Mathematics 217	4
Economics 201	3	Political Science 201	3
Microbiology 206-206L	4	Approved elective ²	3
	—		—
	18		19

¹Following completion of the junior year, any student planning to teach Vocational Agriculture may transfer to Louisiana Tech University or University of Southwestern Louisiana to complete the senior year.

²Electives should be selected with the approval of the adviser so that they will fit into the curriculum of the institution where the student plans to complete the senior year.

BIOLOGICAL SCIENCES DEPARTMENT

BOTANY (609)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Biology 102-102L	3
Biology 124	1	Biology 125	1
English 101	3	English 102	3
Mathematics ¹	3	Mathematics ¹	3
Social science	3	Psychology 101	3
Physical Education 1	1	Social science	3
Orientation	1	Physical education	1
	15		17

SOPHOMORE YEAR

Botany 210-210L	3	Biology or Botany ²	3
Chemistry 103-103L	4	Chemistry 104-104A	4
English	3	English or Speech	3
Foreign language	5	Foreign language	5
Physical education	1	Social science	3
	16	Physical education	1
			19

JUNIOR YEAR

Biology or Botany ²	4	Forestry	3
Foreign language	3	Geology	4
Organic chemistry	4	Physics 204-204L	4
Physics 203-203L	4	Social science	3
	15	Elective ³	3
			17

SENIOR YEAR

Biology or Botany ²	3	Biology or Botany ²	3
Plant & Soil Science		Microbiology	4
210-210L	4	Electives ³	9
Political Science 450	1		
Electives ³	9		
	17		16

Total hours for degree, 132.

¹Mathematics 105, 106, 113, 114, 115, and 116 may not be used.

²See departmental core requirements.

³Electives must be chosen to fulfill the requirements for a minor.

BIOLOGICAL SCIENCES DEPARTMENT

RADIOLOGIC TECHNOLOGY (666)

FRESHMAN YEAR

FIRST SEMESTER	SEM.	HRS.	SECOND SEMESTER	SEM.	HRS.
Biology 101-101L	3		Biology 102-102L	3	
Biology 124	1		Biology 125	1	
Chemistry 103-103L	4		Chemistry 104-104A	4	
English 101	3		English 102	3	
Mathematics ¹	3		Mathematics ¹	3	
Physical Education 1	1		Psychology 101	3	
Orientation	1		Physical education	1	
		16			18

SUMMER

Physics 203-203L	4
Physics 204-204L	4
	8

SOPHOMORE YEAR²

Biology 326-326L	3	Zoology 123-123L	3
Zoology 122-122L	4	Microbiology 206-206L or	
English literature	3	208-208L	4-5
Social science	3	Political Science 450	1
Physical education	1	Social science	3
Elective	3	Physical education	1
		Electives	4
	17		16-17

Total hours of pre-professional work, 75-76; total hours for degree, 141-142.

¹Mathematics 105, 106, 113, 114, 115 and 116 may not be used in this curriculum.

²The first 2 years of courses are taken at Northwestern State University followed by the junior and senior years at the American Medical Association approved School of Radiologic Technology, Schumpert Memorial Hospital, Shreveport, Louisiana. Upon successful completion of the radiologic school, the student is eligible for the degree, Bachelor of Science in Radiologic Technology, and to take the American Registry of Radiologic Technologist national certification examination to become certified Radiologic Technologists R.T. (ARRT).

BIOLOGICAL SCIENCES DEPARTMENT

WILDLIFE MANAGEMENT (683)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Biology 102-102L	3
Biology 124	1	Biology 125	1
Geology 103-103L	4	English 102	3
English 101	3	Mathematics 109	3
Mathematics 103	3	Psychology 101	3
Physical Education 1	1	Social science	3
Orientation	1	Physical education	1
	16		17

SOPHOMORE YEAR

Zoology 206-206L	4	Botany 214-214L	3
Botany 210-210L	3	Chemistry 104-104A	4
Chemistry 103-103L	4	Mathematics 205	3
English	3	English or Speech	3
Social science	3	Geography 201	3
Physical education	1	Physical education	1
	18		17

JUNIOR YEAR

Biology 341-341L	3	Biology 342-342L	3
Zoology 319-319L	3	Zoology 320-320L	2
Forestry 215-215L	3	Zoology 301-301L	4
Physics 203-203L	4	Physics 204-204L	4
Plant and Soil Science 210-210L	4	Social science	3
	17		16

SENIOR YEAR

Biology 327	3	Zoology 430-430L	3
Zoology 429-429L	3	Zoology 495	2
Biological science electives ¹	6	Biological science electives ¹	6
Botany 495	2	Political Science 450	1
Elective	3	Elective	3
	17		15

Total hours for degree, 133.

¹Biological science electives include courses offered by the departments of Biological Sciences and Microbiology.

BIOLOGICAL SCIENCES DEPARTMENT

ZOOLOGY (684)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Biology 102-102L	3
Biology 124	1	Biology 125	1
English 101	3	English 102	3
Mathematics ¹	3	Mathematics ¹	3
Social science	3	Psychology 101	3
Physical Education 1	1	Social science	3
Orientation	1	Physical education	1
	—		—
	15		17

SOPHOMORE YEAR

Biology or Zoology ²	4	Biology or Zoology ²	4
Chemistry 103-103L	4	Chemistry 104-104A	4
English	3	English or Speech	3
Foreign language	5	Foreign language	5
	—	Social science	3
	16		19

JUNIOR YEAR

Microbiology	4	Biology or Zoology ²	3
Foreign language	3	Physics 204-204L	4
Organic chemistry	4	Social science	3
Physics 203-203L	4	Physical education	1
Physical education	1	Electives ³	6
	—		—
	16		17

SENIOR YEAR

Biology or Zoology ²	3	Biology or Zoology ²	3
Political Science 450	1	Electives ³	12
Electives ³	12		—
	—		—
	16		15

Total hours for degree, 131.

¹Mathematics 105, 106, 113, 114, 115, or 116 may not be used.

²See departmental core requirements.

³Electives must be chosen to fulfill the requirements for a minor.

BIOLOGICAL SCIENCES DEPARTMENT

CYTOTECHNOLOGY (691)

(Non-Degree Program)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Biology 102-102L	3
Biology 124	1	Biology 124	1
Chemistry 103-103L	4	Chemistry 104-104A	4
English 101	3	English 102	3
Mathematics ¹	3	Mathematics ¹	3
Physical Education 1	1	Psychology 101	3
Orientation	1	Physical education	1
	16		18

SOPHOMORE YEAR

Zoology 122-122L	4	Zoology 317-317L	3
Zoology 123-123L	3	Biology 318-318L	3
Chemistry 211-211L	4	Microbiology 208-208L	5
Physics 203-203L	4	Physics 204-204L	4
Social science	3	Physical education	1
Physical education	1		
	19		16

Total hours of pre-professional work, 69.

¹Mathematics 105, 106, 113, 114, 115, and 116 may not be used to satisfy this requirement.

NOTE: The Council on Medical Education of the American Medical Association and the American Society of Clinical Pathologists require that the cytotechnologist applicant complete 2 years (a minimum of 60 semester hours) of successful course work in an accredited college or university before being accepted by an AMA-Approved School of Cytotechnology. Upon the successful completion of 12 months' formal curriculum and apprenticeship in an approved school of cytotechnology, the student is eligible to take the certifying examination given to the Registry of Medical Technologists. Those who pass become certified cytotechnologists and may place the letters C.T. (ASCP) after their names.

CHEMISTRY DEPARTMENT

CHEMISTRY (Professional) (64G)

This curriculum is in accordance with the educational requirements suggested by the American Chemical Society. It is recommended for students who plan to work in industry or to enter graduate school.

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Chemistry 103-103L	4	Chemistry 104-104A	4
English 101	3	English 102	3
Mathematics 109 ¹	3	Mathematics 110	5
Psychology 101	3	Social Science	3
Physical Education 1	1	Physical education	1
Orientation	1		
	15		16

SOPHOMORE YEAR

Chemistry 211-211L	4	Chemistry 212-212L	3
English	3	English or Speech	3
Mathematics 211	5	Mathematics 313	3
Physics 251-251L-251R	5	Physics 252-252L-252R	5
Physical education	1	Physical education	1
	18		15

JUNIOR YEAR

Chemistry 301-301L	4	Chemistry 302-302A	5
Chemistry 321-321L	4	Chemistry 322-322L	4
Biological science ²	3	Biological science ²	3
German or Russian	5	German or Russian	5
	16		17

SENIOR YEAR

Chemistry elective ⁵	3-4	Chemistry, Mathematics or Physics elective ⁴	3-4
Chemistry 416-416L	4	Chemistry 414	3
German or Russian	3	Social science	6
Political Science 450	1	Elective ³	3
Electives ³	6		
	17-18		15-16

Total hours for degree, 129-131.¹

¹Students who are deficient in algebra should take Mathematics 103. Credit in this course adds 3 semester hours to degree requirements.

²If the student plans to take additional biology courses, he should take Biology 101-101L, 102-102L, 124 and 125; otherwise he can take Biology 111 and 112, or Microbiology 111 and 112.

³It is suggested that students earn a second minor in a scientific field. The student will have a minor in mathematics on completion of 313.

⁴The elective must be chosen so as to provide a minimum of 1 3-hour laboratory and 2 hours of lecture in any of these fields.

⁵Chosen from Chemistry 404, 413, 415, 422 or 495.

CHEMISTRY DEPARTMENT

CHEMISTRY (612)

Recommended for students who plan to enter medical or dental school, or who plan to study medical technology in hospitals requiring a degree for admission.

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Chemistry 103-103L	4	Chemistry 104-104A	4
Biology 101-101L ¹	3	Biology 102-102L ¹	3
English 101	3	English 102	3
Mathematics 109 ²	3	Mathematics 110	5
Physical Education 1	1	Physical education	1
Orientation	1		
	15		16

SOPHOMORE YEAR

Chemistry 211-211L	4	Chemistry 212-212L	3
English	3	English or Speech	3
Physics 203-203L	4	Physics 204-20	4
Electives ³	5	Psychology 101	3
Physical education	1	Elective ³	3
		Physical education	1
	17		17

JUNIOR YEAR

Chemistry 301-301L	4	Chemistry 302-302A or B	5-4
Approved electives ¹	6	Approved electives ⁴	6
Social science	3	Social science	3
Electives ³	4	Electives ³	4
	17		18-17

SENIOR YEAR

Chemistry ⁵	7	Chemistry ³	4
Approved elective ⁴	4	Approved elective ⁴	4
Political Science 450	1	Social science	3
Elective ³	3	Elective ³	3
	15		14

Total hours for degree, 128-129.

¹Biology 124 and 125 should be taken in addition to 101-101L and 102-102L thereby meeting the minimum requirements in biology for most medical schools, including LSU and Tulane.

²Students who are deficient in algebra should take Mathematics 103. Credit in this course adds 3 semester hours to degree requirements.

³Electives must be chosen so as to complete a minor as defined by the department concerned. A pre-medical, pre-dental, or medical technology student should minor in zoology.

⁴Approved electives to be chosen in biological science, chemistry, computer science, language, mathematics, physics, and the College of Business.

⁵Physical chemistry is especially recommended by medical schools and is a prerequisite for all advanced chemistry courses.

CHEMISTRY DEPARTMENT

CHEMISTRY—TECHNOLOGY AND MANAGEMENT (64F)

A curriculum for future administrators and plant managers in chemical and related industries. The undergraduate business courses in this curriculum are those required by most schools of business for persons with a B.S. degree in a technical area who wish to pursue Master of Business Administration degrees. Upon completion of this curriculum, it is possible for the student to earn an M.B.A. degree within 1 school year and 2 summer sessions.

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Biology 102-102L	3
Chemistry 103-103L	4	Chemistry 104-104A	4
English 101	3	English 102	3
Mathematics 103	3	Mathematics 109	3
Physical Education 1	1	Psychology 101	3
Orientation	1	Physical education	1
	15		17

SOPHOMORE YEAR

Chemistry 211-211L	4	Chemistry 212-212L	3
Physics 203-203L	4	Physics 204-204L	4
Mathematics 110	5	Mathematics 211	5
Economics 201	3	Economics 202	3
Physical education	1	English	3
		Physical education	1
	17		19

JUNIOR YEAR

Chemistry 301-301L	4	Chemistry 302-302B	4
Accounting 205	3	Accounting 206	3
Business Economics 212	3	Business Economics 213	3
Management 322	3	Social science	6
English or Speech	3		
	16		16

SENIOR YEAR

Chemistry 321-321L	4	Chemistry elective (400 level) ..	4
Marketing 323	3	Chemistry 322-322L	4
Political Science 450	1	Economics 310 or 330	3
Social science	3	Social science	3
Elective	3		
	14		14

Total hours for degree, 128.

CHEMISTRY DEPARTMENT

CHEMICAL TECHNOLOGY (696)

Associate Degree

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Chemistry 103-103L	4	Chemistry 104-104A	4
English	3	English	3
Industrial Education 106-106L ..	3	Industrial Education 102-102L ..	3
Mathematics 103	3	Mathematics 109	3
Physical Education 1	1	Mathematics 206	1
Orientation	1	Elective	3
	15		17

SOPHOMORE YEAR

Chemistry 203-203L	4	Chemistry 204-204L	4
Chemistry 211-211L	4	Chemistry 212-212L	3
Computer Science 102	3	Industrial Education 222	3
Physical education	1	Physics 204-204L	4
Physics 203-203L	4		
Elective	3		14
	19		

Total hours, 65.

GEOLOGY DEPARTMENT

GEOLOGY (623)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Geology 103-103L	4	Geology 104-104L	4
Chemistry 103-103L	4	Chemistry 104-104B	4
English 101	3	English 102	3
Mathematics 109 ¹	3	Mathematics 110	5
Health 102	3	Physical education	1
Physical Education 1	1		
Orientation	1		
	19		17

SOPHOMORE YEAR

Geology 307-307L	4	Geology 308-308L	3
Biology 101-101L	3	Biology 102-102L	3
English or Speech	3	English	3
Psychology 101	3	Mathematics 205	3
Engineering drafting 106-106L..	3	Social science	3
Physical education	1	Physical education	1
	17		16

JUNIOR YEAR

Geology 301-301L	4	Geology 302-302L	4
Foreign language ²	5	Geology 304-304L	4
Geography 309	3	Foreign language ²	5
Physics 203-203L or 251-251L-251R	4-5	Physics 204-204L or 252-252L-252R	4-5
	16-17		17-18

SUMMER

Geology 403	6
	6

SENIOR YEAR

Geology 405	3	Geology 402-402L	3
Social science	3	Geology 404-404L	4
Political Science 450	1	Social science	3
Electives ³	7	Elective ³	3
	14		13

Total hours for degree, 135-137.

¹Students deficient in high school algebra should take Mathematics 103. Credit in this course adds 3 semester hours to degree requirements.

²This 10 hours may be in French, German or Russian.

³Electives must be chosen so as to complete a minor as defined by the department concerned.

INDUSTRIAL EDUCATION AND TECHNOLOGY DEPARTMENT

ELECTRONIC ENGINEERING TECHNOLOGY (638)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Electronics 104-104L	6	Electronics 206-206L	6
Engineering Drafting 106-106L ¹	3	Engineering Drafting 223-223L	3
English 101	3	Metals 102-102L	3
Mathematics 103	3	English 102	3
Physical Education 1	1	Mathematics 109	3
Orientation	1	Physical education	1
	17		19

SOPHOMORE YEAR

Electronics 213-213L	6	Electronics 218-218L	6
Electronics 217-217L	6	Electronics 312-312L	6
Mathematics 120 or 110	3-5	Technical Writing 222	3
Speech 101	3	Health 102	3
Physical education	1	Physical education	1
	19-21		19

JUNIOR YEAR

Electronics 318-318L	6	Electronics 311-311L	6
Biological science ²	3	Journalism or English	3
Economics 201 or 202	3	Physics 204-204L or	
Physics 203-203L or		252-252L-252R	4-5
251-251L-251R	4-5	Social science	3
Psychology 101	3	Political Science 450	1
	19-20		17-18

SENIOR YEAR

Electronics 325-325L	6	Electronics 326-326L	6
Electronics 409	3	Electronics 411	3
Chemistry 103-103L or 107-107L	4	Social science	3
Social science	3	Electives ³	5
	16		17

Total hours for degree, 143-147.

¹Students may take a proficiency test if 2 units of mechanical drawing were completed in high school.

²Biological science requirement may be met by taking Biology 101-101L or 111 or Microbiology 111.

³Selected from computer science, mathematics, or electronics.

INDUSTRIAL EDUCATION AND
TECHNOLOGY DEPARTMENT

ELECTRONIC ENGINEERING TECHNOLOGY (63E)

Five-Year Cooperative Program

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Electronics 104-104L	6	Electronics 206-206L	6
Engineering Drafting 106-106L ¹	3	Engineering Drafting 223-223L	3
English 101	3	Industrial Orientation 226	1
Mathematics 103	3	Metals 102-102L	3
Physical Education 1	1	English 102	3
Orientation	1	Mathematics 109	3
		Physical education	1
	17		20

SOPHOMORE YEAR

Electronics 213-213L	6	Electronics 218-218L	6
Electronics 217-217L	6	Electronics 312-312L	6
Mathematics 120 or 110	3-5	Technical Writing 222	3
Speech 101	3	Health 102	3
Physical education	1	Physical education	1
	19-21		19

JUNIOR YEAR

Electronics 318-318L	6	Electronics 311-311L	6
Biological science ²	3	Journalism or English	3
Economics 201 or 202	3	Political Science 450	1
Physics 203-203L or 251-251L-251R	4-5	Physics 204-204L or 252-252L-252R	4-5
Psychology 101	3	Social science	3
	19-20		17-18

SENIOR YEAR

Electronics 325-325L	6	Electronics 326-326L	6
Electronics 409	3	Electronics 411	3
Industrial Internship 307	3	Industrial Internship 319	4
Chemistry 103-103L or 107-107L	4	Social science	3
Social science	3		
	19		16

Total hours for degree, 146-150.

¹Students may take a proficiency test if 2 units of mechanical drawing were completed in high school.²Biological science requirement may be met by taking Biology 101-101L or 111 or Microbiology 111.

Students enrolled in this program will work in participating industries on alternate semesters following the first full year of study in the curriculum. Students must work or be enrolled in regular classes 3 semesters per year.

INDUSTRIAL EDUCATION AND TECHNOLOGY DEPARTMENT

INDUSTRIAL ARTS* (635)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Engineering Drafting 106-106L ¹	3	Engineering Drafting 107-107L	3
Biological science ²	3	Graphic Arts 110-110L	3
English 101	3	Biological science ²	3
Health 102	3	English 102	3
Mathematics	3	Mathematics	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

Metals 102-102L	3	Electronics 104-104L	6
Graphic Arts 111-111L	3	Metals 202-202L	3
Economics 201	3	Economics 202	3
English literature	3	Physical science	3
Physical science	3	Speech 101	3
Physical education	1	Physical education	1
	16		19

JUNIOR YEAR

Woodworking 120-120L	3	Woodworking 200-200L	3
Technical Writing 222	3	Business Economics 104	3
Elective in allied field ³	3	Elective in major field ⁴	3
History 201	3	Political Science 450	1
Psychology 101	3	Sociology 101	3
		Elective	3
	15		16

SENIOR YEAR

Electronics 206-206L	6	Elements of Industrial Super- vision 421 or Employer- Employee Relations 423	3
Drafting elective	3	Elective in major field ⁴	3
Economics 313	3	Elective in allied field ³	5
Elective in major field ⁴	3	Electives	4
Electives	4		
	19		15

Total hours for degree, 133.

*The industrial arts major will select 1 or more areas of specialization from the following fields: drafting, metals, woods, or graphic arts. Electronics may be chosen as an area of specialization only if Mathematics 103 and 109 are elected.

¹Students may take a proficiency test if 2 units of mechanical drawing were completed in high school.

²Biological science requirements may be met by taking Biology 101-101L, 102-102L or 111, 112 or Microbiology 111, 112.

³Approved allied fields for the major in industrial arts are art, business administration, and mathematics.

⁴Electives in the major field will be determined by the adviser in accordance with the student's chosen area of specialization.

INDUSTRIAL EDUCATION AND
TECHNOLOGY DEPARTMENT

INDUSTRIAL TECHNOLOGY (640)

GRAPHIC ARTS

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Engineering Drafting 106-106L ¹	3	Metals 102-102L	3
English 101	3	Graphic Arts 110-110L	3
Health 102	3	English 102	3
Mathematics	3	Mathematics	3
Physical science	3	Physical science	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

Electronics 104-104L	6	Engineering Drafting 107-107L or 201-201L	3
Graphic Arts 111-111L	3	Graphic Arts 219-219L	3
Biological science ²	3	Technical Writing 222	3
Speech 101	3	Biological science ²	3
Physical education	1	Business Economics 104	3
Elective	3	Physical education	1
	19		16

JUNIOR YEAR

Electronics 206-206L	6	Graphic Arts 315	3
Graphic Arts 220-220L	3	Elements of Industrial Super- vision 421 or Employer- Employee Relations 423	3
Economics 201	3	Economics 202	3
Psychology 101	3	History 201	3
Elective	3	Journalism 306	3
	18		15

SENIOR YEAR

Metals 202-202L	3	Graphic Arts 324	3
Graphic Arts 224-224L	3	Graphic Arts 225-225L	3
Graphic Arts 316	3	Art 112	3
Art 111	3	Economics 313	3
Political Science 450	1	Electives	4
Elective	3		
	16		16

Total hours for degree, 133.

¹Students may take a proficiency test if 2 units of mechanical drawing were completed in high school.²Biological science requirements may be met by taking Biology 101-101L, 102-102L or 111, 112 or Microbiology 111, 112.

INDUSTRIAL EDUCATION AND
TECHNOLOGY DEPARTMENT

INDUSTRIAL TECHNOLOGY (639)
MACHINE-TOOL ENGINEERING TECHNOLOGY

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Engineering Drafting 106-106L ¹	3	Metals 102-102L	3
Biological science ²	3	Engineering Drafting 107-107L	3
English 101	3	Biological science ²	3
Health 102	3	English 102	3
Mathematics 103	3	Mathematics 109	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

Electronics 104-104L	6	Engineering Drafting 201-201L	3
Mathematics 110 or 217	5-4	Metals 202-202L	3
Psychology 101	3	Technical Writing 222	3
Speech 101	3	Business Economics 104	3
Physical education	1	Mathematics 206	1
		Physical education	1
		Elective	3
	18-17		17

JUNIOR YEAR

Engineering Drafting 203-203L	3	Metals 302-302L	3
Electronics 206-206L	6	Journalism	3
Business Economics 325	3	Physics 204-204L	4
Economics 201	3	Social science	3
Physics 203-203L	4	Elective	3
	19		16

SENIOR YEAR

Engineering Drafting 304-304L	3	Engineering Drafting 320-320L	3
Elements of Industrial Supervision 421	3	Employer-Employee Relations 423	3
Economics 313	3	Electives	9
History 201	3		
Political Science 450	1		
Elective	3		
	16		15

Total hours for degree, 133-134.

¹Students may take a proficiency test if 2 units of mechanical drawing were completed in high school.

²Biological science requirements may be met by taking Biology 101-101L, 102-102L or 111, 112 or Microbiology 111, 112.

INDUSTRIAL EDUCATION AND
TECHNOLOGY DEPARTMENTINDUSTRIAL TECHNOLOGY (63D)
MACHINE-TOOL ENGINEERING TECHNOLOGY
Five-Year Cooperative Program

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Engineering Drafting 106-106L ¹	3	Metals 102-102L	3
Biological science ²	3	Engineering Drafting 107-107L	3
English 101	3	Biological science ²	3
Health 102	3	English 102	3
Mathematics 103	3	Mathematics 109	3
Orientation	1	Physical Education 1	1
	16		16

SOPHOMORE YEAR

Electronics 104-104L	6	Engineering Drafting 201-201L	3
Chemistry 107-107L	4	Metals 202-202L	3
Mathematics 110 or 217	5-4	Technical Writing 222	3
Speech 101	3	Industrial Orientation 226	1
Physical education	1	Chemistry	4
		Mathematics 206	1
		Physical education	1
	19-18		16

JUNIOR YEAR

1. Working in industry		Metals 302-302L	3
Industrial Internship 307	3	Industrial Education and	
2. On campus ³		Technology Elective	3
Engineering Drafting 203-203L	3	Physics 204-204L	4
Electronics 206-206L	6	Psychology 101	3
Economics 201	3	Social science	3
Physics 203-203L	4	Elective	3
Physical education	1		
	20		19

SENIOR YEAR

1. Working in industry		Engineering Drafting 320-320L	3
Industrial Internship 319	4	Employer-Employee Relations 423	3
2. On campus ³		Journalism	3
Engineering Drafting 304-304L	3	Electives	6
Business Economics 104	3		
History 201	3		15
Political Science 450	1		
Elective	3		
	17		

Total hours for degree, 137-138.

¹Students may take a proficiency test if 2 units of mechanical drawing were completed in high school.²Biological science requirements may be met by taking Biology 101-101L, 102-102L or 111, 112 or Microbiology 111, 112.³Courses will be scheduled during the summer sessions.

INDUSTRIAL EDUCATION AND
TECHNOLOGY DEPARTMENT

DRAFTING TECHNOLOGY (688)

Associate Degree

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Engineering Drafting 106-106L ¹	3	Engineering Drafting 107-107L	3
Metals 102-102L	3	Engineering Drafting 201-201L	3
English	3	Metals 202-202L	3
Mathematics	3	English	3
Psychology 101	3	Mathematics	3
Physical Education 1	1	Physical education	1
Orientation	1		
	17		16

SOPHOMORE YEAR

Engineering Drafting 203-203L	3	Engineering Drafting 303-303L	3
Engineering Drafting 320-320L	3	Engineering Drafting 309-309L	3
Employer-Employee Relations 423	3	Industrial Education and	
Economics	3	Technology Elective	3
Mathematics 206	1	Physics 204-204L	4
Physics 203-203L	4	Physical education	1
Physical education	1	Elective	3
	18		17

Total hours, 68.

¹Students may take a proficiency test if 2 units of mechanical drawing were completed in high school.

INDUSTRIAL EDUCATION AND
TECHNOLOGY DEPARTMENT

ELECTRONICS TECHNOLOGY (689)

Associate Degree

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS
Electronics 104-104L	6	Electronics 206-206L	6
Chemistry 103-103L or 107-107L	4	Electronics 213-213L	6
English 101	3	Engineering Drafting 223-223L	3
Mathematics 103	3	English 102	3
Speech 101	3	Mathematics 109	3
Orientation	1		
	—		—
	20		21

SOPHOMORE YEAR

Electronics 217-217L	6	Electronics 318-318L	6
Electronics 312-312L	6	Electronics 325-325L	6
Mathematics 120	3	Electronics 326-326L	6
Physics 203-203L	4	Technical Writing 222	3
	—		—
	19		21
Total hours, 81.			

INDUSTRIAL EDUCATION AND
TECHNOLOGY DEPARTMENT

PRE-ENGINEERING* (656)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Engineering Drafting 106-106L ¹	3	Engineering Drafting 201-201L	3
Chemistry 103-103L	4	Chemistry 104-104B	4
English 101	3	English 102	3
Mathematics 109	3	Mathematics 110	5
Military science or PE 1	2-1	Social science	3
Orientation	1	Military science or physical education	2-1
	16-15		20-19

SOPHOMORE YEAR

Mathematics 211	5	Mathematics 313	3
Physics 251-251L-251R	5	Physics 252-252L-252R	5
Psychology 101	3	Speech 101	3
Social science	3	Elective	3
Military science or Physical education	2-1	Military science or Physical education	2-1
	18-17		16-15

*The courses listed are required in most schools of engineering. Other courses may be elected to complete a normal class load.

¹Students may take a proficiency test if 2 units of mechanical drawing were completed in high school.

INDUSTRIAL EDUCATION AND
TECHNOLOGY DEPARTMENT

PRINTING TECHNOLOGY (690)

Associate Degree

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Graphic Arts 110-110L	3	Graphic Arts 111-111L	3
Art 111	3	Graphic Arts 315	3
English	3	English	3
Mathematics	3	Mathematics	3
Physical science	3-4	Physical science	3-4
Physical Education 1	1	Physical education	1
Orientation	1		
	17-18		16-17

SOPHOMORE YEAR

Graphic Arts 219-219L	3	Graphic Arts 220-220L	3
Graphic Arts 224-224L	3	Graphic Arts 225-225L	3
Graphic Arts 316	3	Graphic Arts 324	3
Art 112	3	Employer-Employee Relations 423	3
Psychology 101	3	Technical Writing 222	3
Physical education	1	Economics	3
		Physical education	1
	16		19

Total hours, 68-70.

INDUSTRIAL EDUCATION AND
TECHNOLOGY DEPARTMENT

TOOL AND DIE DESIGN TECHNOLOGY (691)

Associate Degree

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS
Engineering Drafting 106-106L ¹	3	Engineering Drafting 107-107L	3
Metals 102-102L	3	Metals 202-202L	3
English	3	English	3
Mathematics 103	3	Mathematics 109	3
Psychology 101	3	Physical education	1
Physical Education 1	1	Elective	3
Orientation	1		
	17		16

SOPHOMORE YEAR

Engineering Drafting 201-201L	3	Metals 302-302L	3
Engineering Drafting 304-304L	3	Engineering Drafting 320-320L	3
Employer-Employee Relations 423	3	Metals 408	1
Economics	3	Elements of Industrial	
Physics 203-203L	4	Supervision 421	3
Physical education	1	Management 322	3
		Physics 204-204L	4
		Physical education	1
	17		18

Total hours, 68.

¹Students may take a proficiency test if 2 units of mechanical drawing were completed in high school.

INDUSTRIAL EDUCATION AND
TECHNOLOGY DEPARTMENT

WOODWORKING TECHNOLOGY (692)

Associate Degree

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Engineering Drafting 106-106L ¹	3	Woodworking 200-200L	3
Woodworking 120-120L	3	Woodworking 313-313L	3
Woodworking 221-221L	3	Technical drawing elective	3
English	3	English	3
Mathematics	3	Forestry 111-111L	3
Physical Education 1	1	Mathematics	3
Orientation	1	Physical education	1
	17		19

SOPHOMORE YEAR

Engineering Drafting 303-303L	3	Woodworking 400-400L	3
Woodworking 333-333L	3	Metals 408	1
Economics	3	Elective or Management 322 ...	3
Mathematics	3	Mathematics	3
Physical science	3-4	Physical science	3-4
Physical education	1	Psychology 101	3
		Physical education	1
	16-17		17-18

Total hours, 69-71.

¹Students may take a proficiency test if 2 units of mechanical drawing were completed in high school.

MATHEMATICS DEPARTMENT

MATHEMATICS (647)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Mathematics 103 ¹	3	Mathematics 110	5
Mathematics 109 ¹	3	Biological science ²	3
Biological science ²	3	English 102	3
English 101 ¹	3	Psychology 101	3
Health 102	3	Physical education	1
Physical Education 1	1		
Orientation	1		
	17		15

SOPHOMORE YEAR

Mathematics 211	5	Mathematics 313	3
English	3	English	3
Foreign language, modern	5	Foreign language, modern	5
Social science	3	Physical education	1
Physical education	1	Elective ³	3
	17		15

JUNIOR YEAR

Mathematics ⁴	3	Mathematics ⁴	3
Chemistry 103-103L or		Chemistry 104-104B or	
Physics 251-251L-251R	4-5	Physics 252-252L-252R	4-5
Foreign language, modern	3	Social science	3
Electives ³	6	Electives ³	6
	16-17		16-17

SENIOR YEAR

Mathematics ⁴	6	Mathematics ⁴	3
Political Science 450	1	Social science	3
Social science	3	Electives ³	9
Electives ³	5		
	15		15

Total hours for degree, 126-128.

¹Students who scored sufficiently high on placement tests may be awarded credit for these courses if they successfully complete the next course in the sequence.

²Must be chosen from 1 of the following combinations: Biology 101-101L and Biology 102-102L; Biology 111 and Biology 112; Microbiology 111 and Microbiology 112.

³Electives must be chosen so as to complete a minor as defined by the department concerned.

⁴Students planning to do graduate work in mathematics should schedule 309, 310, 417, and select 6 hours from 316, 412, 419, 420, 426.

BIOLOGICAL SCIENCES, CHEMISTRY,
AND MICROBIOLOGY DEPARTMENTS

MEDICAL TECHNOLOGY (A.S.C.P.) (64Z) (64C) (64M)

(Degree Program)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Biology 102-102L	3
Biology 124	1	Biology 125	1
Chemistry 103-103L	4	Chemistry 104-104A	4
English 101	3	English 102	3
Mathematics ¹	3	Mathematics ¹	3
Physical Education 1	1	Psychology 101	3
Orientation	1	Physical education	1
	16		18

SOPHOMORE YEAR

Zoology 122-122L or 206-206L ...	4	Microbiology 208-208L	5
Chemistry (organic) ²	4	Zoology 123-123L or 421-421L or	
Physics 203-203L	4	Biology 315-315L	3-4
English literature	3	Physics 204-204L	4
Social science	3	Physical education	1
	18	Elective	3
			16-17

JUNIOR YEAR

Chemistry 211-211L	4	Chemistry 204-204L	4
Microbiology 419-419L	4	Chemistry 212-212L	3
Zoology 313-313L or		Microbiology 412-412L	4
Microbiology 313-313L	4	Zoology 317-317L	3
Social science	3	Political Science 450	1
Physical education	1	Social science	3
Elective	3		
	19		18

Total hours of pre-professional work, 105-106; total hours for a degree, 135-136.

¹Mathematics 105, 106, 113, 114, 115 and 116 may not be used.

²This requirement can be met by Chemistry 203-203L or by Chemistry 301-301L and 302-302A, but not by Chemistry 301-301L alone.

NOTE: in order to earn the B.S. degree, the student must successfully complete 12 months of work, equivalent to 30 semester hours of college work, at a hospital approved by the American Society of Clinical Pathologists and by Northwestern State University. This off-campus study will be equivalent to the senior year of study in college. However, since some hospitals are now requiring a completed B.S. degree before admission to the clinical laboratory internship, students are urged to complete a 4-year curriculum on campus with additional courses selected to meet degree requirements.

Minimum non-degree requirements: training for medical technology calls for a minimum of 3 years of college (including 16 semester hours each of biology and chemistry), plus 12 months of clinical training in a hospital laboratory school of medical technology accredited by the Council on Medical Education of the American Medical Association. The 12 months include lectures, seminars and practical application of scientific knowledge to laboratory tests. Following this training, students are eligible to take the national examination of the Board of Registry of Medical Technologists of the American Society of Clinical Pathologists. This gives certification with the professional title, MT (ASCP).

MICROBIOLOGY DEPARTMENT

CLINICAL MICROBIOLOGY (61B)

Recommended for students who plan to study medical technology in hospitals requiring a degree for admission, or to proceed directly to clinical employment.

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Biology 102-102L	3
Chemistry 103-103L	4	Chemistry 104-104A	4
English 101	3	English 102	3
Mathematics ¹	3	Mathematics ¹	3
Physical Education 1	1	Psychology 101	3
Orientation	1	Physical education	1
	15		17

SOPHOMORE YEAR

Microbiology 208-208L	5	Zoology 122-122L	4
Chemistry 301-301L	4	Chemistry 302-302B	4
English	3	English or Speech	3
Physical education	1	Social science	3
Elective	3	Physical education	1
		Elective	2
	16		17

JUNIOR YEAR

Microbiology 313-313L	4	Microbiology 412-412L	4
Microbiology 419-419L	4	Microbiology 414-414L	3
Chemistry 211-211L	4	Chemistry 212-212L	3
Social science	3	Social science	3
Elective	2	Elective	3
	17		16

SENIOR YEAR

Microbiology 403	3	Microbiology 490	1
Microbiology 490	1	Biochemistry	4
Zoology 317-317L	3	Biology 318-318L	3
Physics 203-203L	4	Zoology 421-421L	4
Social science	3	Physics 204-204L	4
Elective	2	Political Science 450	1
	16		17

Total hours for degree, 131.

¹Mathematics 105, 106, 113, 114, 115, and 116 may not be used.

MICROBIOLOGY DEPARTMENT

GENERAL MICROBIOLOGY (649)

A flexible degree program for special purposes.

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Biology 102-102L	3
Chemistry 103-103L	4	Chemistry 104-104A	4
English 101	3	English 102	3
Mathematics 103 ¹	3	Mathematics 109 ¹	3
Physical Education 1	1	Psychology 101	3
Orientation	1	Physical education	1
	15		17

SOPHOMORE YEAR

Microbiology 208-208L	5	Microbiology	4
Chemistry 301-301L	4	Chemistry 302-302B	4
English	3	English or Speech	3
Physical education	1	Social science	3
Elective	3	Physical education	1
		Elective	2
	16		17

JUNIOR YEAR

Microbiology	4	Microbiology	4
Chemistry 211-211L	4	Biology 327	3
Social science	3	Chemistry 212-212L	3
Electives	5	Electives	5
	16		15

SENIOR YEAR

Microbiology 490	1	Microbiology 490	1
Microbiology	3	Microbiology	3
Physics 203-203L	4	Physics 204-204L	4
Social science	3	Political Science 450	1
Electives	6	Social science	3
		Electives	4
	17		16

Total hours for degree, 129.

¹Mathematics 105, 106, 113, 114, 115, and 116 may not be used.

MICROBIOLOGY DEPARTMENT

MICROBIOLOGY (Professional) (64H)

Recommended for students who plan to enter graduate school.

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Biology 102-102L	3
Chemistry 103-103L	4	Chemistry 104-104A	4
English 101	3	English 102	3
Mathematics ¹	3	Mathematics ¹	3
Physical Education 1	1	Psychology 101	3
Orientation	1	Physical education	1
	15		17

SOPHOMORE YEAR

Microbiology 208-208L	5	Microbiology	4
Chemistry 301-301L	4	Chemistry 302-302B	4
Mathematics 110	5	Mathematics 211	5
English	3	English or Speech	3
Physical education	1	Social science	3
	18		19

JUNIOR YEAR

Microbiology	3	Microbiology	4
Chemistry 211-211L	4	Biology 327	3
Physics 203-203L	4	Chemistry 212-212L	3
Foreign language	3	Physics 204-204L	4
Social science	3	Foreign language	3
	17		17

SENIOR YEAR

Microbiology 490	1	Microbiology 490	1
Microbiology	2	Microbiology 495	4
Chemistry 404-404L	4	Chemistry 405	3
Foreign language	3	Foreign language	3
Political Science 450	1	Social science	3
Physical education	1	Electives ²	4
Electives ²	4		
			18
	16		

Total hours for degree, 137.

¹Mathematics 105, 106, 113, 114, 115, and 116 may not be used.²Chemistry 321-321L and 322-322L are recommended in this curriculum.

MICROBIOLOGY DEPARTMENT

MICROBIOLOGY-TECHNOLOGY AND MANAGEMENT (64D)

Curriculum for future administrators and plant managers in industries such as pharmaceuticals, antibiotics, and food processing.

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Biology 102-102L	3
Chemistry 103-103L	4	Chemistry 104-104A	4
English 101	3	English 102	3
Mathematics ¹	3	Mathematics ¹	3
Physical Education 1	1	Psychology 101	3
Orientation	1	Physical education	1
	15		17

SOPHOMORE YEAR

Microbiology 208-208L	5	Chemistry 302-302B	4
Chemistry 301-301L	4	Biology 327	3
Computer Science 201	3	Economics 202	3
Economics 201	3	Social science	3
English	3	Speech	3
	18	Physical education	1
			17

JUNIOR YEAR

Microbiology 419-419L	4	Chemistry 212-212L	3
Chemistry 211-211L	4	Microbiology 412-412L	4
Accounting 205	3	Business Economics 212 or	
Management 322	3	Mathematics 205	3
Social science	3	Marketing 323	3
	17	Social science	3
		Physical education	1
			17

SENIOR YEAR

Microbiology 490	1	Microbiology 490	1
Microbiology 403	3	Microbiology elective	3
Microbiology elective	2	Biochemistry	4
Physics 203-203L	4	Physics 204-204L	4
Marketing 382 or 410	3	Management 427 or 430	3
Social science	3	Political Science 450	1
	16		16

Total hours for degree, 133.

¹Mathematics 105, 106, 113, 114, 115, and 116 may not be used.

PHYSICS DEPARTMENT

PHYSICS (64J)

(Honors)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Physics 101-101L	3	Physics 102-102L	3
Chemistry 103-103L	4	Chemistry 104-104B	4
English 101	3	English 102	3
Mathematics 109	3	Mathematics 110	5
Psychology 101	3	Physical education	1
Physical Education 1	1		
Orientation	1		
	18		16

SOPHOMORE YEAR

Physics 251-251L-251R	5	Physics 252-252L-252R	5
Foreign language ¹	5	English (literature)	3
Mathematics 211	5	Foreign language ¹	5
Physical education	1	Mathematics 313	3
		Physical education	1
	16		17

JUNIOR YEAR

Physics 329	3	Physics 330	3
Physics 451	4	Physics 462	4
Foreign language ¹	3	Physics 410	3
Mathematics 316	3	English or Speech	3
Social science	3	Social science	3
	16		16

SENIOR YEAR

Physics 371	3	Physics 382	3
Physics 483	3	Physics 484	3
Social Science	3	Electives ²	12
Political Science 450	1		
Electives ²	6		
	16		18

Total hours for degree, 133.

¹The foreign language requirement may be satisfied with French, German or Russian.²Electives must be chosen so as to complete a minor as defined by the department concerned. Students contemplating graduate study in physics should consider electing Mathematics 417, 419 or 412, 432.

PHYSICS DEPARTMENT

PHYSICS (654)

(Applied)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Physics 101-101L	3	Physics 102-102L	3
Chemistry 103-103L	4	Chemistry 104-104B	4
Mathematics 109	3	Mathematics 110	5
English 101	3	English	3
Psychology 101	3	Physical education	1
Physical Education 1	1		
Orientation	1		
	18		16

SOPHOMORE YEAR

Physics 251-251L-251R	5	Physics 252-252L-252R	5
Mathematics 211	5	Mathematics 313	3
English (literature)	3	English or Speech	3
Social science	3	Social science	3
Physical education	1	Physical education	1
	17		15

JUNIOR YEAR

Physics 329	3	Physics 330	3
Physics 409	3	Physics 410	3
Mathematics 316	3	Social science	3
Political Science 450	1	Technical electives ¹	8
Technical electives ¹	7		
	17		17

SENIOR YEAR

Physics 371	3	Physics 382	3
Technical electives ¹	8	Technical electives ¹	8
Electives ²	6	Electives ²	6
	17		17

Total hours for degree, 134.

¹The technical electives should be taken in the College of Science and Technology.²These electives should be taken in the College of Liberal Arts. It is strongly recommended that a year of modern foreign language be elected.

BIOLOGICAL SCIENCES
AND CHEMISTRY DEPARTMENTS

PRE-DENTISTRY (655)

A 4-year degree is highly recommended for pre-dental students. Degree programs in zoology and chemistry applicable to students desiring to enter dental schools, are described in the respective departmental listings. In some cases, however, it is possible for students to gain admission to dental schools and do creditable work after 3 years of pre-dental study. In such cases, to those who complete the 3-year program with proper grade averages, and subsequently complete satisfactorily the first year of work in an accredited dental school, the University will grant the degree of Bachelor of Science.

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Biology 102-102L	3
Biology 124	1	Biology 125	1
Chemistry 103-103L	4	Chemistry 104-104A	4
English 101	3	English 102	3
Mathematics 103	3	Mathematics 109	3
Physical Education 1	1	Psychology 101	3
Orientation	1		
	16		17

SUMMER

Social science	6
Physical education	1
	7

SOPHOMORE YEAR

Chemistry 301-301L	4	Chemistry 302-302B	4
Physics 203-203L	4	Physics 204-204L	4
English	3	Zoology 206-206L	4
Elective ¹	5	Elective ¹	5
Physical education	1	Physical education	1
	17		18

JUNIOR YEAR

Biology 327	3	Environmental biology elective	3
Chemistry 211-211L	4	Zoology 405-405L	4
Microbiology 208-208L	5	Science elective ²	4
English or Speech	3	Social science	6
Elective	3	Political Science 450	1
	18		18

¹Students following this curriculum should consult a catalogue of the dental school they plan to attend to determine if a foreign language is required.

²Suggested electives include Biology 315-315L, Zoology 317-317L, Chemistry 404-404L, and Microbiology 412-412L and 419-419L.

BIOLOGICAL SCIENCES, CHEMISTRY,
AND MICROBIOLOGY DEPARTMENTS

PRE-MEDICINE (66Z) (66C) (66M)

A 4-year degree is highly recommended for pre-medical students. Degree programs in zoology, chemistry and microbiology applicable to students desiring to enter medical schools, are described in the respective departmental listings. In some cases, however, it is possible for students to gain admission to medical schools and do creditable work after 3 years of pre-medical study. In such cases, to those who complete the 3-year program with proper grade averages, and subsequently complete satisfactorily the first year of work in an accredited medical school, the University will grant the degree of Bachelor of Science.

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Biology 101-101L	3	Biology 102-102L	3
Biology 124	1	Biology 125	1
Chemistry 103-103L	4	Chemistry 104-104A	4
English 101	3	English 102	3
Mathematics 103	3	Mathematics 109	3
Physical Education 1	1	Psychology 101	3
Orientation	1		
	16		17

SUMMER

Social science	6
Physical education	1
	7

SOPHOMORE YEAR

Chemistry 301-301L	4	Chemistry 302-302B	4
Physics 203-203L	4	Physics 204-204L	4
English	3	Zoology 206-206L	4
Elective ¹	5	Elective ¹	5
Physical education	1	Physical education	1
	17		18

JUNIOR YEAR

Biology 327	3	Environmental biology elective	3
Chemistry 211-211L	4	Zoology 405-405L	4
Microbiology 208-208L	5	Science elective ²	4
English or Speech	3	Social science	6
Elective	3	Political Science 450	1
	18		18

¹Students following this curriculum should consult a catalogue of the medical school they plan to attend to determine if a foreign language is required.

²Suggested electives include Biology 315-315L, Zoology 317-317L, Chemistry 404-404L, and Microbiology 412-412L and 419-419L.

BIOLOGICAL SCIENCES
AND CHEMISTRY DEPARTMENTS

PRE-PHARMACY¹ (69H)

FRESHMAN YEAR

FIRST SEMESTER	SEM. HRS.	SECOND SEMESTER	SEM. HRS.
Chemistry 103-103L	4	Chemistry 104-104A	4
Biology 101-101L	3	Biology 102-102L	3
Biology 124	1	Biology 125	1
English 101	3	English 102	3
Mathematics 103	3	Mathematics 109	3
Physical Education 1	1	Physical education	1
Orientation	1	Elective	3
	16		18

SOPHOMORE YEAR

Chemistry 301-301L	4	Chemistry 302-302B	4
Physics 203-203L	4	Physics 204-204L	4
Economics 201	3	English	3
English or Speech	3	Social science	3
Physical education	1	Physical education	1
		Elective	3
	15		18

¹Students following this curriculum should consult a catalogue of the pharmacy school they plan to attend to determine if any additional courses are needed.

AGRICULTURAL SCIENCES

Z. W. DAUGHTREY, *Associate Professor and Department Head*

Associate Professor: H. Townsend;

Assistant Professors: Kirst, Misuraca, Stevens; Instructor: Every

Curricula

Undergraduate Requirements

AGRI-BUSINESS

Required for a major (Science and Technology): Agriculture 104, 105, 490; Agricultural Economics 211, 400, 411; Animal Science 200-200L, 306; Plant and Soil Science 210-210L; and 12 hours of approved agricultural science electives; Accounting 205, 206, 308; Business Economics 212; and 12 hours of approved business electives—62 semester hours.

Special requirements: Biology 101-101L, 327; Botany 210-210L; Chemistry 103-103L, 104-104A or B, 4 hours of organic chemistry; 3 hours of biology or chemistry electives; Economics 201; Health Education 202; Microbiology 206-206L; Zoology 300-300L or 301-301L.

ANIMAL SCIENCE

Required for a major (Science and Technology): Agricultural Economics 211, 400; Agriculture 104, 105, 490; Animal Science 200-200L, 217-217L, 218-218L, 304, 306, 404, 407-407L, 415 and 4-6 hours of animal science electives; Plant and Soil Science 210-210L, 335-335L; and 12 hours of approved agricultural science or business electives—62-64 semester hours.

Special requirements: Biology 101-101L, 102-102L, 327; Chemistry 103-103L, 104-104A or B and 4 hours of organic chemistry; chemistry, mathematics or biology elective-3 hours; Economics 201; Health Education 202; Mathematics 103, 109; Microbiology 206-206L; Zoology 300-300L or 301-301L.

Required for a minor (Science and Technology): Agriculture 104; Animal Science 200-200L, 217-217L, 304 and 6 hours elected from animal science courses at 300-level or above—19 semester hours.

GENERAL AGRICULTURE

Required for a major (Science and Technology): Agriculture 104, 105, 490 and 11 hours of approved agricultural science electives; Agricultural Economics 211, 400, 411; Animal Science 200-200L, 304, 306; Forestry 111-111L; Plant and Soil Science 210-210L, 416-416L, 413 and 6 hours of plant and soil science electives—56 semester hours.

Special requirements: Accounting 205; Biology 101-101L, 327; Botany 210-210L; Business, 9 hours of approved electives; Chemistry 103-103L, 104-104A or B, organic chemistry, 4 hours; Economics 201; Health Education 202; Microbiology 206-206L; Zoology 300-300L or 301-301L.

PLANT AND SOIL SCIENCE

Required for a major (Science and Technology): Agriculture 104, 105, 490; Agricultural Economics 211, 400; Animal Science 306; Plant and Soil Science 210-210L, 332-332L, 416-416L, 428, 431 and 12 hours of approved plant and soil science electives; and 6 hours of approved electives in agricultural sciences, business or science—51 semester hours.

Special requirements: Biology 101-101L, 327; Botany 210-210L, 309-309L, 403-403L; Chemistry 103-103L, 104-104A or B, and organic chemistry, 4 hours.

biology, chemistry or mathematics electives, 3 hours; Economics 201; Health Education 202; Mathematics 103, 109; Microbiology 206-206L; Zoology 300-300L or 301-301L.

Required for a minor (Science and Technology): Agriculture 105; Plant and Soil Science 210-210L and 12 hours elected from plant and soil science courses at 300-level or above—19 semester hours.

PRE-PROFESSIONAL PROGRAMS

In the College of Science and Technology pre-professional programs are offered in Forestry, Veterinary Medicine, and Vocational Agricultural Education. A 4-year degree is recommended for pre-veterinary medicine students. A degree program in Animal Science applicable to students desiring to enter veterinary medical schools is described in the departmental listings.

Courses of Instruction

Each lecture course and related laboratory course is a combination taught as a unit; the 2 courses must be taken concurrently. If 1 is dropped, the other must be dropped at the same time. If either course in such a lecture/laboratory combination is failed, it may be repeated without repeating the other.

AGRICULTURE

For Undergraduates Only

104. INTRODUCTORY ANIMAL SCIENCE. 3 hours. Introduction to modern animal agriculture; emphasis on problems of breeding, feeding, management, and marketing. (Formerly Animal Science 103.)

105. INTRODUCTORY PLANT SCIENCE. 3 hours. Fundamental morphological, physiological, and reproductive features of the higher plants; important agricultural plants of the United States and the world. (Formerly Agronomy 103.)

490. SEMINAR. 1 hour. Preparation and presentation by students of papers on pertinent agricultural topics. Required of all majors in their senior year. Prerequisite: senior standing.

AGRICULTURAL ECONOMICS

For Undergraduates Only

211. AGRICULTURAL ECONOMICS. 3 hours. Fundamental principles of economics as applied to agriculture, emphasizing American economic development; cost of production; marketing; price; credit; taxation; land utilization; government regulation and control. (Formerly Agricultural Economics 213.)

300. MARKETING FARM PRODUCTS. 2 hours. Economic principles and problems related to marketing farm products. Market outlets, the structure and functions of the marketing process, and marketing agencies including government programs. Prerequisite: 211 or Economics 201. (Formerly Agricultural Economics 312.)

400. FARM AND RANCH MANAGEMENT. 3 hours. Application of business and economics principles to farm and ranch enterprises. Efficient organization and resource allocation on southern farms. Prerequisite: 211. (Formerly Agricultural Economics 423.)

411. AGRICULTURAL RECORDS AND ANALYSIS. 3 hours. Accounting procedure in keeping farm inventories, farm cash accounts and other types of farm records. Prerequisites: 211, 400; Accounting 205 or consent of instructor.

ANIMAL SCIENCE

For Undergraduates Only

200. INTRODUCTORY DAIRY SCIENCE. 2 hours. The dairy industry; dairy breeds, selection, nutrition, and management. Food value of dairy products, common dairy tests, dairy microbiology, sanitation, and the manufacture of dairy food products. Prerequisites: Registration in or credit for 200L; Agriculture 104; Biology 101-101L. (Formerly Animal Science 213.)

200L. INTRODUCTORY DAIRY SCIENCE LABORATORY. 1 hour. Prerequisite: Registration in or credit for 200. (Formerly Animal Science 213L.)

217. ANATOMY AND PHYSIOLOGY OF FARM ANIMALS. 3 hours. Structure and function of the various systems in farm animals, including the nervous system, blood circulation, lung and kidney function and an introduction to digestion, reproduction and hormone function. Prerequisites: registration in or credit for 217L; Agriculture 104; Biology 101-101L. (Formerly Animal Science 214.)

217L. ANATOMY AND PHYSIOLOGY OF FARM ANIMALS LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 217. (Formerly Animal Science 214L.)

218. MEAT SCIENCE AND TECHNOLOGY. 2 hours. Live animal-car-
cass evaluation, slaughtering, processing, utilization and identification of meat and meat products. Prerequisites: registration in or credit for 218L; Agriculture 104; Biology 101-101L; Chemistry 104-104A or B.

218L. MEAT SCIENCE AND TECHNOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 218.

304. DISEASES OF FARM ANIMALS. 3 hours. Causative agents, prevention, diagnosis and treatment of diseases of farm animals. Prerequisites: 217-217L of consent of instructor; Agriculture 104. (Formerly Animal Science 333.)

311. LIVESTOCK AND MEATS EVALUATION. 1 hour. Comparative evaluation of breeding and market animals; carcass evaluation, selection and grading. Prerequisites: registration in or credit for 311L; 218-218L.

311L. LIVESTOCK AND MEATS EVALUATION LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 311.

314. DAIRY FOODS TECHNOLOGY. 2 hours. Principles and practices involved in processing of milk into market milk, butter, and cheese; manufacture of frozen, freeze-dehydrated, concentrated, and dehydrated dairy foods. Emphasis on quality control. Prerequisites: registration in or credit for 314L; 200-200L; Chemistry 104-104A or B and organic chemistry.

314L. DAIRY FOODS TECHNOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 314.

320. POULTRY PRODUCTION AND MANAGEMENT. 3 hours. Principles and practices of commercial poultry production. Prerequisites: Agriculture 104 and junior standing or consent of instructor. (Formerly Animal Science 113.)

322. SWINE PRODUCTION AND MANAGEMENT. 2 hours. Management practices in commercial and purebred swine production. Prerequisites: registration in or credit for 322L; Agriculture 104; junior standing or consent of instructor.

322L. SWINE PRODUCTION AND MANAGEMENT LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 322.

331. HORSE MANAGEMENT AND TRAINING. 2 hours. Breeds, characteristics, common defects and unsoundness, judging, breeding, feeding and training of horses. Prerequisites: junior standing and consent of instructor. (Formerly Animal Science 123.)

404. APPLIED ANIMAL NUTRITION. 3 hours. Composition and characteristics of feeds; formulation of rations to meet the nutrient requirements of the various classes of livestock; nature and uses of feed stuffs. Prerequisite: 306. (Formerly Animal Science 323.)

421. DAIRY CATTLE MANAGEMENT. 2 hours. Principles of dairy cattle management and recommended practices of economical milk production. Prerequisites: registration in or credit for 421L; 200-200L; junior standing or consent of instructor.

421L. DAIRY CATTLE MANAGEMENT LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 421.

422. BEEF CATTLE PRODUCTION AND MANAGEMENT. 2 hours. Breeding, selection, feeding and management principles of beef cattle production under southern conditions. Prerequisites: registration in or credit for 422L; Agriculture 104; junior standing or consent of instructor.

422L. BEEF CATTLE PRODUCTION LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 422.

495. RESEARCH PROBLEMS. 1-4 hours. Library, field or laboratory research in the field of animal science. Formal written report and/or departmental seminar presentation required. Prerequisites: senior standing and consent of instructor.

For Undergraduates and Graduates

306. PRINCIPLES OF ANIMAL NUTRITION. 3 hours. Basic principles of animal nutrition including digestion, absorption, utilization, chemical composition and values of nutrients. Prerequisites: Chemistry 104-104A or B and organic chemistry. (Formerly Animal Science 423.)

407. ANIMAL REPRODUCTION. 3 hours. The anatomy and physiology of the reproductive systems of the various farm species. Prerequisites: registration in or credit for 407L; 217-217L; Agriculture 104; Biology 102-102L or Botany 210-210L. (Formerly Animal Science 343.)

407L. ANIMAL REPRODUCTION LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 407.

415. ANIMAL BREEDING. 3 hours. Application of basic genetic principles to livestock breeding and selection; use of heritability estimates, inbreeding and crossbreeding. Prerequisites: Agriculture 104; Biology 327; senior standing or consent of instructor. (Formerly Animal Science 433.)

FORESTRY

For Undergraduates Only

111. INTRODUCTION TO FORESTRY. 2 hours. Fundamentals of applied forestry, including elementary dendrology, mensuration, management and simple surveying problems. Prerequisite: registration in or credit for 111L.

111L. INTRODUCTION TO FORESTRY LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 111

215. DENDROLOGY. 2 hours. Principal trees of the United States, their identification and distribution; construction of analytical keys. Prerequisite: registration in or credit for 215L.

215L. DENDROLOGY LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 215

216. DENDROLOGY. 2 hours. Continuation of 215. Prerequisite: registration in or credit for 216L

216L. DENDROLOGY LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 216.

PLANT AND SOIL SCIENCE

Agronomy Section:

For Undergraduates Only

210. SOIL SCIENCE. 3 hours Fundamentals of soil science. Origin, composition, and classification of soils; their physical, chemical, and biological properties; significance of these properties to soil-plant relationships and soil management. Prerequisites: registration in or credit for 210L; registration in or credit for Chemistry 104-104A or B. (Formerly Agronomy 214.)

210L. SOIL SCIENCE LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 210. (Formerly Agronomy 214L.)

330. FIELD CROP PRODUCTION. 3 hours. Crop characteristics and varieties, environmental factors, rotations, production practices associated with the major cash crops of Louisiana and the United States. Prerequisites, 210-210L; Agriculture 105. (Formerly Agronomy 413.)

335. FORAGE AND PASTURE CROPS. 2 hours. Production, management, and identification of major forage crop plants; emphasis on development and maintenance of pastures. Prerequisites: registration in or credit for 335L; 210-210L; Agriculture 105. (Formerly Agronomy 223.)

335L. FORAGE AND PASTURE CROP LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 335. (Formerly Agronomy 223L.)

336. SEED TECHNOLOGY. 2 hours. Analysis of planting seed, germination, and purity. Production, processing, storing, and marketing pure seed. Identification of crop and weed seeds. State and federal seed laws. Prerequisites: registration in or credit for 336L; Agriculture 105; Biology 327.

336L. SEED TECHNOLOGY LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 336.

431. SOIL FERTILITY AND FERTILIZERS. 3 hours. History of plant nutrition and soil fertility; nutrient availability as influenced by chemical, biological and physical properties of soils; manufacture, properties, and usage of fertilizer materials; fertilization practices related to a sound soil management program. Prerequisites: 210-210L; Agriculture 105; 12 semester hours of chemistry. (Formerly Agronomy 323.)

432. SOIL MANAGEMENT AND LAND USAGE. 2 hours. Types of erosion, causes, and controls; practical studies in planning and evaluation of soil management systems; land use planning and conservation management. Prerequisites: registration in or credit for 432L; 210-210L; 341-341L; 431 or consent of instructor.

432L. SOIL MANAGEMENT AND LAND USAGE LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 432.

495. RESEARCH PROBLEMS IN PLANT AND SOIL SCIENCE. 1-4 hours. Individual laboratory and field investigations of subject matter not included in established courses. Formal written report and/or departmental seminar presentation required. Prerequisites: senior standing and consent of instructor.

For Undergraduates and Graduates

332. PLANT BREEDING. 2 hours. Principles of genetics as applied to plant breeding of agronomic and horticultural crops. Emphasis on breeding methods and techniques. Prerequisites: registration in or credit for 332L; 336-336L or consent of instructor; Biology 327.

332L. PLANT BREEDING LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 332.

340. SOIL CHEMISTRY. 2 hours. Chemical and colloidal properties of clay and soil systems. Analytical techniques and chemical instrumentation employed in soil analysis. Prerequisites: registration in or credit for 340L; 210-210L; 12 semester hours of chemistry.

340L. SOIL CHEMISTRY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 340.

341. SOIL MORPHOLOGY AND CLASSIFICATION. 3 hours. Factors involved in the genesis, morphology, and classification of soils. Soil profile characteristics as criteria in the modern classification system. Field problems in the recognition and mapping of soils. Prerequisites: registration in or credit for 341L; 210-210L; Chemistry 104-104A or B; Geology 103-103L recommended.

341L. SOIL MORPHOLOGY AND CLASSIFICATION LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 341.

416. WEED SCIENCE. 3 hours. Principles involved in cultural and chemical weed control; chemistry of herbicides and the effects of the chemicals on the plant; identification of common weeds and their seeds. Prerequisites: registration in or credit for 416L; 210-210L; Agriculture 105; 12 semester hours of chemistry including organic chemistry. (Formerly Agronomy 423.)

416L. WEED SCIENCE LABORATORY. 1 hour. Important weed problems in Louisiana, herbicides to be used, and equipment used for herbicidal application. Laboratory 2 hours. Prerequisite: registration in or credit for 416. (Formerly Agronomy 423L.)

428. CROP PHYSIOLOGY. 3 hours. The plant-environment interaction in relation to growth and production of crop communities. Radiant energy, carbon dioxide, water, and temperature relationships in crop stands. Prerequisites: Agriculture 105; Botany 403-403L; consent of instructor.

Horticulture Section:

For Undergraduates Only

345. LANDSCAPE GARDENING. 2 hours. Fundamental principles and management practices used in the culture of fruits, vegetables and ornamentals. Emphasis on landscaping, identification, propagation, and maintenance of plants in the home garden. Prerequisites: registration in or credit for 345L; consent of instructor. (Formerly Horticulture 412.)

345L. LANDSCAPE GARDENING LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 345. (Formerly Horticulture 412L.)

346. VEGETABLE PRODUCTION. 2 hours. Principles and practices involved in production, climatic requirements, nutritional requirements, management and quality characteristics of important vegetable crops. Prerequisites: registration in or credit for 346L; Agriculture 105; Botany 210-210L. (Formerly Horticulture 312.)

346L. VEGETABLE PRODUCTION LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 346. Formerly Horticulture 312L.)

424. TURF MANAGEMENT. 2 hours. Management of turf grasses on lawns, golf courses, parks, highways, and athletic fields. Characteristics and adaptation of grasses and turf plants with emphasis on establishment, utilization, and maintenance. Prerequisites: registration in or credit for 424L; 210-210L; Agriculture 105; Botany 210-210L.

424L. TURF MANAGEMENT LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 424.

425. FRUIT AND NUT PRODUCTION. 2 hours. Principles of fruit and nut culture, nutrition, irrigation, pruning, fruit development and orchard establishment. Prerequisites: registration in or credit for 425L; Agriculture 105; Botany 210-210L.

425L. FRUIT AND NUT PRODUCTION LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 425.

429. NURSERY AND GREENHOUSE MANAGEMENT. 2 hours. Practices involved in commercial and home nursery and greenhouse management. Emphasis on identification and culture of nursery and greenhouse plants. Prerequisites: registration in or credit for 429L; Agriculture 105; Botany 210-210L.

429L. NURSERY AND GREENHOUSE MANAGEMENT LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 429.

For Undergraduates and Graduates

427. PLANT PROPAGATION. 2 hours. Principles of plant propagation, including general nursery practices, seeding, potting, baling, and planting of fruit and ornamental plants. Prerequisites: registration in or credit for 427L; 336-336L; Biology 327; Botany 210-210L.

427L. PLANT PROPAGATION LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 427.

BIOLOGICAL SCIENCES

W. G. ERWIN, *Professor and Department Head*

Professor: Outland;

Associate Professors: Baumgardner, Buckley, Daspit, Kruse, Lin;

Assistant Professors: Allen, Burns, Glick, Hamilton, Lamprecht, Sanders, Stalling, Stothart, Viers, Whitehead, Williams.

DEPARTMENTAL CORE REQUIREMENTS

Undergraduate requirements for a major in Biology, Botany, Wildlife Management, and Zoology (including Pre-medicine and Pre-dentistry): Biology 101-101L, 102-102L, 124, 125, and at least 1 course selected from each of the following areas:

Genetics: Biology 327.

Physiology: Biology 315-315L; Botany 403-403L; Zoology 421-421L.

Morphology and Development: Botany 210-210L, 311-311L, 312-312L, 361-361L, 413-413L; Zoology 205-205L, 206-206L, 301-301L, 313-313L, 317-317L, 405-405L, 411-411L, 412-412L, 414-414L.

Environmental Biology: Biology 341-341L, 342-342L; Botany 214-214L, 309-309L, 402-402L; Zoology 304-304L, 314-314L, 335-335L, 404-404L, 417-417L, 418-418L.

Total: 24 semester hours.

BIOLOGY

Undergraduate Requirements

For a major (Science and Technology): see Botany, Wildlife Management or Zoology.

For a major (Education): departmental core requirements¹ plus the following: Chemistry 103-103L, 104-104A, and 4 hours of organic chemistry; 4 hours of microbiology; Physics 203-203L, 204-204L.

For a minor (Education): Biology 101-101L, 102-102L, 124, 125, and 10 hours selected from 3 of the departmental core areas.¹ Since state certification regulations require that a biology teacher must also be certified to teach general science, the student must complete a minimum of 6 hours of chemistry and 6 hours of physics.

For a major in science (Education): students in the College of Education are permitted to major in science by earning a minimum of 44 semester hours as follows: Biology 101-101L, 102-102L, 124, 125 and 4 additional hours of biological sciences; Chemistry 103-103L, 104-104A and 4 hours of chemistry electives chosen from courses numbered 200 or above; Geology 103-103L; 104-104L; Physics 203-203L, 204-204L, 309 (Astronomy). Students electing to place major emphasis in biology will select a minimum of 6 additional hours from 2 of the departmental core areas.

Graduate Requirements for the Master of Science in Education

Undergraduate preparation for a major: 18 semester hours of biological sciences including Biology 101-101L, 102-102L, 124, 125; Botany 210-210L; Zoology 206-206L; or the equivalents.

Requirements for a major: The combined undergraduate and graduate programs must include a minimum of 12 semester hours in zoology and 9 sem-

¹Majors or minors in Education may substitute Zoology 123-123L for physiology core requirements.

ester hours in botany, with at least 1 course in each of the departmental core areas.

Undergraduate preparation for a minor: 12 hours in the biological sciences, including Biology 101-101L, 102-102L, 124, 125, or the equivalent.

Requirements for a minor; a minimum of 8 semester hours, including at least 1 field course.

Courses marked with an asterisk (*) are those in which formal written reports in lieu of a thesis may be submitted.

GRADUATE REQUIREMENTS FOR THE MASTER OF SCIENCE IN THE NATURAL SCIENCES

General Requirements

This is an interdisciplinary degree involving a major department and at least 1 minor department. All general requirements for the master's degree as published in the **Graduate School Bulletin** apply to this degree.

A minimum of 33 semester hours including at least 3 hours in research problems, or an equivalent course requiring research procedures, with the results of this major investigative report to be presented at a general departmental seminar. Copies of this report must be filed in the Graduate Dean's office and in the office of the student's major department, as per the Graduate School requirements.

A student will complete a minimum of 15 hours, including research problems, but may not present more than 21 hours in the major department. The remainder of the hours will be distributed in accordance with the student's interests and with his committee's approval, but must be chosen from courses in biological sciences, chemistry, geology, mathematics, microbiology, and physics.

The committee for a student in this degree program will consist of 4 members, with at least 2 members from a department other than the major department.

Special Requirements

Undergraduate preparation for a major in biology: 18 semester hours of biological sciences including Biology 101-101L, 102-102L, 124, 125; Botany 210-210L; Zoology 206-206L; or the equivalents.

Requirements for a major in biology: the combined undergraduate and graduate programs must include at least 1 course in each of the departmental core areas.

BOTANY

Undergraduate Requirements

For a major (Science and Technology): departmental core requirements plus the following: Plant and Soil Science 210-210L; Chemistry 103-103L, 104-104A and 4 hours of organic chemistry; 3 hours of forestry; 4 hours of geology; 4 hours of microbiology; Physics 203-203L, 204-204L; 13 semester hours of 1 foreign language.

For a minor: Biology 101-101L, 102-102L, 124, 125; Botany 210-210L, 3 additional hours of botany; 4 hours of microbiology.

Graduate Requirements for the Master of Science

Undergraduate preparation for a major: 24 semester hours in the biological sciences, including Biology 101-101L, 102-102L, 124, 125; Botany 210-210L; or the equivalent; 4 hours of organic chemistry; 12 semester hours of a foreign language or reading knowledge of the language.

Requirements for a major: a minimum of 24 semester hours (8 of which may be taken in a minor or related fields), 3 hours of statistics, and a thesis. The combined undergraduate and graduate programs must include at least 1 course in each of the departmental core areas.

Undergraduate preparation for a minor: Biology 101-101L, 102-102L, 124, 125, or equivalents; and a minimum of 8 additional semester hours in botany.

Requirements for a minor: a minimum of 8 semester hours.

Courses marked with an asterisk (*) are those in which formal written reports in lieu of a thesis may be submitted.

WILDLIFE MANAGEMENT

For the B.S. degree: Biology 101-101L, 102-102L, 124, 125, 327, 341-341L, 342-342L; Botany 210-210L, 214-214L, 495; Zoology 206-206L, 301-301L, 319-319L, 320-320L, 429-429L, 430-430L, 495; 12 hours of biological sciences electives selected from the departments of Biological Sciences and Microbiology. Also required: Plant and Soil Science 210-210L; Chemistry 103-103L, 104-104A; Forestry 215-215L; Geology 103-103L; Geography 201; Physics 203-203L, 204-204L; Mathematics 103, 109, 205.

ZOOLOGY

For a major (Science and Technology): departmental core requirements plus the following: Chemistry 103-103L, 104-104A and 4 hours of organic chemistry; 4 hours of microbiology; Physics 203-203L, 204-204L; 12 semester hours of 1 foreign language.

For a minor (except in Education): Biology 101-101L, 102-102L, 124, 125, and 10 additional hours selected from at least 3 of the departmental core areas.

Graduate Requirements for the Master of Science

Undergraduate preparation for a major: 24 semester hours in the biological sciences, including Biology 101-101L, 102-102L, 124, 125; Zoology 205-205L, 206-206L; or the equivalent; 4 hours of organic chemistry; 12 semester hours of a foreign language or reading knowledge of the language.

Requirements for a major: a minimum of 24 semester hours (8 of which may be taken in a minor or related fields), 3 hours of statistics, and a thesis. The combined undergraduate and graduate programs must include at least 1 course in each of the departmental core areas.

Undergraduate preparation for a minor: Biology 101-101L, 102-102L, 124, 125, or the equivalents; and a minimum of 8 additional semester hours in zoology.

Requirements for a minor: a minimum of 8 semester hours.

Courses marked with an asterisk (*) are those in which formal written reports in lieu of a thesis may be submitted.

CYTOTECHNOLOGY (Non-degree Program)

Students planning to become certified cytotechnologists must complete successfully 2 years (a minimum of 69 semester hours) of college courses before being admitted to a school of cytotechnology. The suggested curriculum is included with the curricula in the College of Science and Technology.

MEDICAL TECHNOLOGY Degree Program

The prospective medical technologist must complete successfully 3 years (90 semester hours) of course work in an accredited college or university before

being accepted by an AMA-approved school of medical technology. The complete curriculum is outlined in the College of Science and Technology curricula. The 4th year is spent at a school of medical technology (usually in a large hospital) where the student receives 12 months of applied training. A certifying examination is given after the 4th year by the Registry of Medical Technologists and those who pass become certified medical technologists—MT (ASCP).

Non-degree Program

Training for the non-degree program requires 3 years of college (including 16 semester hours each of biology and chemistry), plus 12 months of clinical training in a hospital laboratory school. Following this training, students are eligible to take the national examination of the Board of Registry of Medical Technologists of the American Society of Clinical Pathologists. This gives certification with the professional title, MT (ASCP).

PRE-MEDICINE OR PRE-DENTISTRY

(Degree Program)

Students planning to study medicine or dentistry may major in zoology and minor in chemistry. Such a program includes all courses required or strongly recommended by most medical schools, including Louisiana State University and Tulane. For detailed list of courses, see curriculum sheet for Zoology.

Radiologic Technology

The 1st of 2 years of courses are taken at Northwestern State University, followed by the junior and senior years at the American Medical Association approved School of Radiologic Technology, Schumpert Memorial Hospital, Shreveport, Louisiana. Upon successful completion of the radiologic school, the student is eligible for the degree, Bachelor of Science in Radiologic Technology, and to take the American Registry of Radiologic Technologist national certification examination to become certified Radiologic Technologists R. T. (ARRT).

Courses of Instruction

Each lecture course and related laboratory course is a combination taught as a unit; the 2 courses must be taken concurrently. If 1 is dropped, the other must be dropped at the same time. If either course in such a lecture-laboratory combination is failed, it may be repeated without repeating the other.

BIOLOGY

For Undergraduates Only

101. BIOLOGICAL PRINCIPLES. 2 hours. Nature of life; simplified classification of plants and animals; chemical basis of life; structural basis of life; cell specialization; cell metabolism; nutrition; gas exchange; transport of materials; homeostasis chemical control in plants; glandular control and nervous control in animals. Prerequisite: credit for or registration in 101L.

101L. BIOLOGICAL PRINCIPLES LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 101.

102. BIOLOGICAL PRINCIPLES. 2 hours. Cell reproduction; nature and action of genes; sexual reproduction in plants and animals; embryological development; evidence for evolution; origin of life; interrelationships between

living organisms; relationships of organisms to habitat, community and ecosystem; evolution of plants and animals. Prerequisites: registration in or credit for 102L; 101-101L.

102L. BIOLOGICAL PRINCIPLES LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 102.

111. OUR BIOLOGICAL WORLD—I. 3 hours. Nature of living organisms; structure and functions of human systems; reproduction and development; cell structure and function; basic principles of genetics; genetics of populations. This course must be followed by Biology 112 and may not be used to substitute for biological sciences requirements for students in certain of the curricula in the colleges of Education and Science and Technology.

112. OUR BIOLOGICAL WORLD—II. 3 hours. Diversity of life; origin and history of life; physical and biotic environments and man's relation to them; animal behavior; biological problems and the future of mankind. This course may not be used to substitute for biological sciences requirements for students in certain curricula in the colleges of Education and Science and Technology. Prerequisite: 111.

124. READINGS IN BIOLOGY. 1 hour. Discussion of selected papers in the biological sciences. Designed to stimulate independent reading, study, criticism and discussion.

125. READINGS IN BIOLOGY. 1 hour. Continuation of 124. Prerequisite: 124.

309.¹ ENVIRONMENTAL BIOLOGY AND RECREATION. 3 hours. Field experience in recreation and biology, including elements of outdoor living; study of plants, animals, and topographic formations; techniques of collecting and preserving organisms; collection of data and the preparation of a formal report. Planning and follow-up periods 1 week each; extended field trip to Texas, New Mexico, Arizona. Four weeks. Prerequisites: 102-102L, Recreation 208, or consent of instructor. (Same as Recreation 309.)

326. RADIATION BIOLOGY. 2 hours. Fundamentals of nuclear physics; Basic radioisotope methodology; effects of radiation on living organisms. Prerequisites: registration in or credit for 326L; 102-102L; Chemistry 104-104A; Physics 204-204L; junior standing or consent of instructor.

326L. RADIATION BIOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 326.

341. PRINCIPLES OF PLANT ECOLOGY. 2 hours. Ecological principles and problems primarily in relation to Louisiana vegetation and habitats; methods of vegetation study and the measurement of various environmental factors. Prerequisites: registration in or credit for 341L; 102-102L, 125; Botany 214-214L or consent of instructor.

341L. PRINCIPLES OF PLANT ECOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 341.

342. PRINCIPLES OF ANIMAL ECOLOGY. 2 hours. Interrelationships of animals and environment; stress upon sampling techniques; population and community structure. Prerequisites: registration in or credit for 342L; 102; 102L, 125; junior standing; 341-341L recommended.

342L. PRINCIPLES OF ANIMAL ECOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 342.

¹This course may not be used to meet the requirements for a major or minor in curricula in the Department of Biological Sciences.

408. ORGANIC EVOLUTION. 3 hours. Principles and dynamics of evolution processes. Prerequisites: 102-102L, 125 and 327, or consent of instructor.

425. HISTORY OF BIOLOGY. 3 hours. Discoveries, contributions, and ideas which have marked the progress of biology; significance of historical developments in the light of present biological knowledge. Prerequisites: 12 hours of biological sciences or consent of instructor.

For Undergraduates and Graduates

***315. CELL PHYSIOLOGY.** 3 hours. Basic principles of life processes in living cells, including structure and function of organelles, cellular metabolism, active transport, nerve and muscle action, bioluminescence, photosynthesis and cell division. Prerequisites: registration in or credit for 315L; 102-102L, 125; Chemistry 103-103L, 104-104A; organic chemistry recommended.

315L. CELL PHYSIOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 315.

318. MICROTECHNIQUE. 1 hour. Principles of microscopy, use of light phase, darkfield and interference microscopy; photomicrography and micro-illustration; killing, fixing, staining, dehydrating, clearing, paraffin embedding, sectioning, and mounting plant and animal materials; frozen sectioning, histochemical techniques and the use of the cryostat; vital staining; isolation of cells and organelles. Prerequisites: registration in or credit for 318L; 102-102L, 125.

318L. MICROTECHNIQUE LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 318.

***327. GENETICS.** 3 hours. Principles of heredity and their application to plants and animals, including man. Prerequisite: 6 hours of biological sciences.

328. GENETICS LABORATORY. 1 hour. Corn, fruit-fly, and bacterial crosses used to illustrate the basic laws of heredity; designed to accompany 327. Laboratory 2 hours.

***414. MEDICAL MYCOLOGY.** 2 hours. Fungi infecting man, emphasis on techniques of isolation, identification, and methods of therapy and control; disease syndromes of important fungal infections. Prerequisites: registration in or credit for 414L; 102-102L, 125. (Same as Microbiology 414.)

414L. MEDICAL MYCOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 414.

For Graduates Only

***501. BIOLOGY FOR ELEMENTARY TEACHERS.** 1 hour. Biological concepts and phenomena useful in the elementary school; assembling and using materials and apparatus required for illustrating these concepts and phenomena. Prerequisites: registration in or credit for 501L; 12 hours of sciences. Not open to biology majors.

501L. BIOLOGY FOR ELEMENTARY TEACHERS LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 501.

502. PRINCIPLES OF BIOLOGY. 3 hours. Fundamental principles and processes of living organisms, as exemplified by structure, physiology, classification, genetics, evolution, and ecology; designed to bring teachers up-to-date in biological concepts and their application. Prerequisite: registration in or credit for 502L.

502L. PRINCIPLES OF BIOLOGY LABORATORY. 3 hours. Laboratory 9 hours. Prerequisite: registration in or credit for 502.

503. PROBLEMS IN SECONDARY SCHOOL BIOLOGY. 3 hours. Techniques and rationale associated with the introduction of new teaching materials in high school biology. Laboratory 6 hours. Prerequisite: consent of department head.

***505. HISTORY OF BIOLOGY.** 3 hours. Origin, development, and evolution of biological principles and concepts. Prerequisites: 18 hours of biological sciences.

506. LITERATURE IN BIOLOGY. 1 hour. Library readings and reports in selected areas of biology; use of biological bibliographies. Prerequisites: 18 hours of biological sciences.

***508. ORGANIC EVOLUTION.** 3 hours. Processes of evolution; development of evolutionary thought; selected readings. Prerequisites: at least 2 laboratory courses in biological sciences and Biology 327, or consent of instructor.

***512. CYTOLOGY.** 2 hours. Plant and animal materials. Cell morphology and variation, organization and distribution of standard inclusions, structure of the nucleus and mechanism of mitosis. Basic concept of the ultrastructure and molecular architecture of the cell. Prerequisites: registration in or credit for 512L; 102-102L, 125, Chemistry 104-104A.

512L. CYTOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 512.

***517. PRINCIPLES AND METHODS OF SYSTEMATICS.** 2 hours. Principles of plant and animal systematics, emphasizing problems of speciation, classification, and nomenclature; methods of field and laboratory research including classical, cytotaxonomic, biochemical and numerical taxonomic approaches. Prerequisites: registration in or credit for 517L; 102-102L, 125, 327.

517L. PRINCIPLES AND METHODS OF SYSTEMATICS LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 517.

***526. RADIOISOTOPES IN BIOLOGY AND MEDICINE.** 2 hours. Basic characteristics of radiation; techniques of radioactive counting; health physics; uses of radioisotopes as biological tracers and means of medical diagnosis and treatment. Research term paper required. Prerequisites: registration in or credit for 526L; 102-102L, 125; Chemistry 104-104A; Physics 204-204L.

526L. RADIOISOTOPES IN BIOLOGY AND MEDICINE LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 526.

530. NATURAL HISTORY AND ECOLOGY. 1 hour. Common plants and animals of Louisiana; principles of conservation; effects of urbanization, industrialization, and population growth on the environment. Not open to majors or minors in the biological sciences. Summers. Prerequisites: registration in or credit for 530L; 101-101L, 102-120L, or equivalents.

530L. NATURAL HISTORY AND ECOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 530.

***541. PLANT ECOLOGY.** 2 hours. Origins, development, and regional distribution of plant communities; methods of sampling; the use of instruments in the study of microclimate. Prerequisites: registration in or credit for 541L; at least 1 field course.

541L. PLANT ECOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 541.

***542. ANIMAL ECOLOGY.** 2 hours. Fundamental relationships upon which the lives of individuals and communities depend; ecosystem dynamics especially stressed. Prerequisites: registration in or credit for 542L; at least 1 field course.

542L. ANIMAL ECOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 542.

***552. QUANTITATIVE ECOLOGY.** 2 hours. Dynamics of populations, stressing phenomena of growth, distribution and diversity. Prerequisites: registration in or credit for 552L; 341-341L, 342-342L, 541-541L, 542-542L; Statistics 435; or consent of department head.

552L. QUANTITATIVE ECOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 552.

***560. SPECIATION.** 3 hours. Contemporary ideas and problems of evolutionary mechanics, particularly of species formation from genetic and systematic viewpoints. Prerequisites: 102-102L, 125, 327.

***566. BIOGEOGRAPHY.** 3 hours. Spatial and temporal distribution of major plant and animal groups, with emphasis on environmental and historical features controlling present patterns of distribution; relation of distribution to origin of taxa; and biogeographical classification. Prerequisites: a minimum of 16 hours in biology, preferably including courses in ecology and evolution.

590.¹ SEMINAR. 1 hour per semester. Reports of current research projects by graduate students and staff; recent developments and discoveries in biology. Required each semester.

598. THESIS. Maximum, 6 hours.

BOTANY

For Undergraduates Only

210. GENERAL BOTANY. 2 hours. Structure and functions of plant cells, tissues, and organs; including nutrition, metabolism, water relations, and growth of plants. Prerequisites: registration in or credit for 210L; Biology 102-102L, and 125, or consent of instructor.

210L. GENERAL BOTANY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 210.

214. INTRODUCTORY PLANT TAXONOMY. 1 hour. Identification and classification of local seed plants and ferns; field trips and collections; use of keys, manuals, and herbaria. Prerequisites: registration in or credit for 214L; Biology 102-102L, 125. (Formerly 302.)

214L. INTRODUCTORY PLANT TAXONOMY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 214.

495. BOTANICAL PROBLEMS. 1-4 hours. Individual research on some botanical problem not ordinarily included within the scope of regularly scheduled courses; conferences with instructor as needed; procedures, results, and conclusions presented in the form of a research paper. Prerequisites: junior standing; consent of department head and proposed research director.

For Undergraduates and Graduates

***309. PLANT PATHOLOGY.** 3 hours. Causes of plant diseases; disease cycles; host-parasite interactions; epiphytology; disease prediction and control.

¹Credit earned during second and third semesters of residence will be counted toward degree.

Special emphasis placed on diseases of southern plants. Prerequisites: registration in or credit for 309L; 210-210L; Biology 102-102L.

309L. PLANT PATHOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 309.

***311. THE NON-VASCULAR PLANTS.** 2 hours. Morphology, taxonomy, physiology, life history, evolution, ecology, and economic importance of the algae, fungi, liverworts and mosses. Prerequisites: registration in or credit for 311L; 210-210L; Biology 102-102L, 125; consent of instructor.

311L. THE NON-VASCULAR PLANTS LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 311.

***312. THE VASCULAR PLANTS.** 2 hours. Morphology, taxonomy, physiology, life history, evolution, ecology, and economic importance of the tracheophytes. Prerequisites: registration in or credit for 312L; 210-210L; Biology 102-102L, 125; or consent of instructor.

312L. THE VASCULAR PLANTS LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 312.

361.¹ MARINE BOTANY. 2 hours. A survey, based on examples found in the vicinity of the Gulf Coast Research Laboratory, of the principal groups of marine algae and maritime flowering plants, treating structure, reproduction, distribution, identification, and ecology. Prerequisites: registration in or credit for 361L; 10 hours of biological sciences or consent of instructor; junior standing.

361L.¹ MARINE BOTANY LABORATORY. 2 hours. Laboratory 6 hours. Prerequisite: registration in or credit for 361.

***402. TAXONOMY OF GRASSES.** 1 hour. Introduction to grasses and grass-like plants; field identification and laboratory work with keys and manuals. Prerequisites: registration in or credit for 402L; Biology 102-102L, 125.

402L. TAXONOMY OF GRASSES LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 402.

***403. PLANT PHYSIOLOGY.** 2 hours. Physico-chemical principles of absorption, translocation and transpiration; respiration, photosynthesis, growth, differentiation and reproduction. Prerequisites: registration in or credit for 403L; Biology 102-102L, 125; organic chemistry recommended.

403L. PLANT PHYSIOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 403.

***413. MYCOLOGY.** 2 hours. Morphology, physiology, classification, evolution, economic importance and life cycles of fungi; techniques used in cultivation and identification of fungi. Prerequisites: registration in or credit for 413L; Biology 102-102L, 125. (Same as Microbiology 413.)

413L. MYCOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 413.

For Graduates Only

***503. PLANT TAXONOMY.** 1 hour. Identification and classification of vascular plants, with emphasis on family characteristics. Prerequisites: registration in or credit for 503L; Biology 102-102L, 125.

¹This course is conducted during summer sessions at the Gulf Coast Marine Research Laboratory, Ocean Springs, Mississippi. Students should register at Northwestern State University before leaving for the Research Laboratory. Further information may be obtained from the Director, Gulf Coast Marine Research Laboratory, Ocean Springs, Mississippi; or Head, Department of Biological Sciences, Northwestern State University.

503L. PLANT TAXONOMY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 503.

***595.¹ RESEARCH PROBLEMS.** 1-6 hours.

598. THESIS. Maximum, 6 hours.

ZOOLOGY

For Undergraduates Only

122. HUMAN ANATOMY. 3 hours. Gross structure of the human body, with emphasis on clinical aspects. Designed primarily for nursing students. Prerequisite: registration in or credit for 122L.

122L. HUMAN ANATOMY LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 122.

123. HUMAN PHYSIOLOGY. 2 hours. Functions of the human body. Prerequisite: registration in or credit for 123L.

123L. HUMAN PHYSIOLOGY LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 123.

205. INVERTEBRATE ZOOLOGY. 2 hours. Morphology, taxonomy, physiology, life history, evolution, ecology, and economic importance of the major invertebrate phyla. Prerequisites: registration in or credit for 205L; Biology 102-102L, 125.

205L. INVERTEBRATE ZOOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 205.

206. COMPARATIVE ANATOMY. 2 hours. The vertebrate systems, including morphology, taxonomy, and evolution of the chordate groups; comparative dissections of the dogfish, necturus and cat. Prerequisites: registration in or credit for 206L; Biology 102-102L, 125.

206L. COMPARATIVE ANATOMY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 206.

299.² INTRODUCTION TO MARINE ZOOLOGY. 2 hours. General introduction to the marine environment with emphasis on local fauna. Weekly collecting trips by boat; guest lectures and visits to local areas acquaint students with research being done and economic importance of marine resources. Designed to provide teachers with an opportunity to become acquainted with the coast (teaching collections are encouraged). Prerequisites: registration in or credit for 299L; 8 hours of biological sciences or permission of instructor.

299L. INTRODUCTION TO MARINE ZOOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 299.

300. ECONOMIC ENTOMOLOGY. 2 hours. Arthropods affecting man, his crops, and animals, with emphasis upon their identification and control. Prerequisites: registration in or credit for 300L; Biology 102-102L.

300L. ECONOMIC ENTOMOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 300.

313. PARASITOLOGY. 2 hours. Nature of parasitism, its effects on the

¹This course may be repeated any number of times. No more than 6 hours may be applied toward the M.S. degree.

²This course is conducted during summer sessions at the Gulf Coast Marine Research Laboratory, Ocean Springs, Mississippi. Students should register at Northwestern State University before leaving for the Research Laboratory. Further information may be obtained from the Director, Gulf Coast Marine Research Laboratory, Ocean Springs, Mississippi, or Head, Department of Biological Sciences, Northwestern State University.

parasite and host, and the evolution of the parasitic habit; structure, classification, life history, ecology, physiology and pathology of parasitic protozoa, worms, and arthropods. Prerequisites: registration in or credit for 313L; Biology 102-102L, 125.

313L. PARASITOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 313.

335. NATURAL HISTORY OF THE VERTEBRATES. 2 hours. Identification and ecology of fishes, Amphibia, reptiles, birds and mammals; emphasis on field study. Prerequisites: registration in or credit for 335L; Biology 102-102L, 125.

335L. NATURAL HISTORY OF THE VERTEBRATES LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 335.

495.¹ ZOOLOGICAL PROBLEMS. 1-4 hours. Individual research on some zoological problem not ordinarily included within the scope of regularly scheduled courses; conferences with instructor as needed; procedures, results, and conclusions presented in the form of a research paper. Prerequisites: junior standing; consent of department head and proposed research director.

For Undergraduates and Graduates

***301. GENERAL ENTOMOLOGY.** 2 hours. Introduction to Phylum Arthropoda, stressing fundamentals of morphology, physiology, systematics, and life histories. Prerequisites: registration in or credit for 301L; Biology 102-102L.

301L. GENERAL ENTOMOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 301.

304. ORNITHOLOGY. 2 hours. Techniques of bird study; adaptive significance and evolution of bird behavior, ecology, physiology, and morphology; field identification and natural histories of Louisiana species. Prerequisites: registration in or credit for 304L; Biology 102-102L, 125.

304L. ORNITHOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 304.

***314. HERPETOLOGY.** 2 hours. Introduction to classification, structure, evolution, natural history, and distribution of amphibians and reptiles. Laboratory emphasis on Louisiana forms. Collection required. Prerequisites: registration in or credit for 314L; 206-206L, or consent of instructor.

314L. HERPETOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 314.

***317. HISTOLOGY.** 1 hour. Cytology and microanatomy of animal tissues, principally mammalian. Prerequisites: registration in or credit for 317L; 206-206L; Biology 102-102L, 125.

317L. HISTOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 317.

319. WILDLIFE MANAGEMENT. 2 hours. Methods for studying animal populations; practice in determining sex, age, reproductive condition, and food habits; capturing and marking animals; census methods, estimating harvest, and evaluating habitat conditions. Prerequisites: registration in or credit for 319L; Biology 102-102L, 125. (formerly 419)

¹Course may be repeated any number of times, but no more than 4 hours may be applied toward a degree.

319L. WILDLIFE MANAGEMENT LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 319.

320. TECHNIQUES OF WILDLIFE MANAGEMENT. 1 hour. Use of literature; research methods; control of animal populations; population dynamics; values of regulations, refuges, artificial propagation, predator control, and habitat improvement. Field trips to nearby state and federal wildlife management areas and refuges. Prerequisites: registration in or credit for 320L; Biology 102-102L, 125. (formerly 420)

320L. TECHNIQUES OF WILDLIFE MANAGEMENT LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 320.

334. ANIMAL BEHAVIOR. 3 hours. Perception of the external world; orientation; motivation; social behavior with emphasis on communication. Prerequisites: registration in or credit for 334L; Biology 102-102L; junior standing.

334L. ANIMAL BEHAVIOR LABORATORY. 1 hour. Laboratory experiments designed to illustrate principles of animal behavior. Laboratory 3 hours. Prerequisite: registration in or credit for 334.

***404. MAMMALOLOGY.** 2 hours. Behavior, ecology, physiology, morphology, evolution and zoogeography of mammals; taxonomy of mammals of the world; field and laboratory techniques of mammal study; identification of Louisiana species. Prerequisites: registration in or credit for 404L; Biology 102-102L.

404L. MAMMALOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 404.

***405. EMBRYOLOGY.** 2 hours. General embryology with attention to early developmental stages of various animals and later development of the chick and mammals. Prerequisites: registration in or credit for 405L; Biology 102-102L, 125.

405L. EMBRYOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 405.

411. MARINE INVERTEBRATE ZOOLOGY I. 3 hours. Advanced survey of the phylogeny, anatomy, biotic interrelationships, life histories, and distribution of the lower invertebrate phyla from Protozoa up to Annelida; emphasis on species occurring in the Gulf of Mexico. Prerequisites: registration in or credit for 411L; 205-205L; junior standing.

411L. MARINE INVERTEBRATE ZOOLOGY LABORATORY I. 3 hours. Laboratory 9 hours. Prerequisite: registration in or credit for 411.

412.¹ MARINE INVERTEBRATE ZOOLOGY II. 3 hours. Advanced survey of phylogeny, anatomy, biotic interrelationships, life histories, and distribution of the higher invertebrate phyla from Annelida up through Echinodermata; emphasis on species occurring in the Gulf of Mexico. Prerequisites: registration in or credit for 412L; 205-205L; junior standing.

412L. MARINE INVERTEBRATE ZOOLOGY LABORATORY II. 3 hours. Laboratory 9 hours. Prerequisite: registration in or credit for 412.

414.¹ MARINE VERTEBRATE ZOOLOGY AND ICHTHYOLOGY. 3 hours. Systematic relationships, morphology, and biological significance of all Chordata associated with a marine environment; emphasis placed on marine

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fishes. Prerequisites: registration in or credit for 414L; 206-206L; junior standing.

414L. MARINE VERTEBRATE ZOOLOGY AND ICHTHYOLOGY LABORATORY. 3 hours. Laboratory 9 hours. Prerequisite: registration in or credit for 414.

***417. LIMNOLOGY-AQUATIC BIOLOGY.** 2 hours. Physical, chemical and biological properties of inland waters. Prerequisites: registration in or credit for 417L; Biology 102-102L, 125; 6 hours of chemistry.

417L. LIMNOLOGY-AQUATIC BIOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 417.

***418. BIOLOGY OF FISHES.** 2 hours. Taxonomy, anatomy, physiology, evolution, life history and ecology of fresh-water fishes. Prerequisites: registration in or credit for 418L; 206-206L, or consent of instructor.

418L. BIOLOGY OF FISHES LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 418.

***421. COMPARATIVE VERTEBRATE PHYSIOLOGY.** 3 hours. Comparison of the physiological adaptation of various vertebrate groups to their environment. Water balance, body temperature and energy metabolism, respiration, circulation, sensory and nervous systems. Prerequisites: registration in or credit for 421L; 122-122L or 206-206L; junior standing; organic chemistry recommended.

421L. COMPARATIVE VERTEBRATE PHYSIOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 421.

***429. RESIDENT WILDLIFE RESOURCES.** 2 hours. Ecology and management of resident wildlife on farm, forest and range lands; particular emphasis upon white-tailed deer, eastern wild turkey and small upland game. Prerequisites: registration in or credit for 429L; 319-319L; 1 course in field ecology.

429L. RESIDENT WILDLIFE RESOURCES LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 429.

***430. MIGRATORY WILDLIFE RESOURCES.** 2 hours. Biology and management of doves, waterfowl and marsh birds; field trips to waterfowl refuges and management areas; emphasis upon marsh ecology. Prerequisites: registration in or credit for 430L; 319-319L; 1 course in field ecology.

430L. MIGRATORY WILDLIFE RESOURCES LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 430.

440.¹ MARINE FISHERIES BIOLOGY. 2 hours. A survey of principles beginning with fishery landing statistics of the United States, followed by other areas of the earth; classic theory is examined and statistical applications are made to various Gulf of Mexico fisheries. This course is primarily designed for seniors and graduate students, but juniors with good standing may be admitted. Prerequisites: registration in or credit for 440L; 18 hours of zoology, preferably including 418-418L.

440L. MARINE FISHERIES BIOLOGY LABORATORY. 2 hours. Laboratory 6 hours. Prerequisite: registration in or credit for 440.

¹This course is conducted during summer sessions at the Gulf Coast Marine Research Laboratory, Ocean Springs, Mississippi. Students should register at Northwestern State University before leaving for the Research Laboratory. Further information may be obtained from the Director, Gulf Coast Marine Research Laboratory, Ocean Springs, Mississippi, or Head, Department of Biological Sciences, Northwestern State University.

For Graduates Only

***501. EXPERIMENTAL PARASITOLOGY.** 2 hours. Morphology, physiology, ecology, and evolution of animal parasites; review and analysis of current research in parasitology; laboratory experiments on animal parasites. Prerequisites: registration in or credit for 501L; Biology 102-102L, 125.

501L. EXPERIMENTAL PARASITOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 501.

***515. ENVIRONMENTAL ANIMAL PHYSIOLOGY.** 3 hours. Physiological adaptations of animals to aquatic, desert, montane and subterranean habitats. Prerequisites: registration in or credit for 515L; 421-421L; organic chemistry.

515L. ENVIRONMENTAL ANIMAL PHYSIOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 515.

535. BIOLOGY OF THE VERTEBRATES. 2 hours. Ecology, classification and distribution of fishes, Amphibia, reptiles, birds and mammals; emphasis on collecting, preserving and preparing specimens for class study. Designed primarily for teachers. Prerequisites: registration in or credit for 535L; 8 hours of biology or consent of instructor. (Credit not allowed for both 335-335L and 535-535L.)

535L. BIOLOGY OF THE VERTEBRATES LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 535.

***595.¹ RESEARCH PROBLEMS.** 1-6 hours.

598. THESIS. Maximum, 6 hours.

CHEMISTRY

LARRY G. SPEARS, *Associate Professor and Department Head*

Associate Professors: Bissell, Hyde; *Assistant Professors:* Brignac, Danner, Guin, Hargrove, McRae; *Lecturer:* Greco.

For a major (Science and Technology—professional): 103-103L, 104-104A, 211-211L, 212-212L, 301-301L, 302-302A, 321-321L, 322-322L, 414, 416-416L, and 6 hours chosen from 404-404L, 413, 415-415L, 422, or 495—45 semester hours. A course in advanced mathematics or advanced physics may be substituted for 1 of the chemistry electives. Also required: German or Russian, 13 hours; Mathematics 110, 211, 313; Physics 251-251L-251R, 252-252L-252R.

For a major (Science and Technology): 103-103L, 104-104A, 211-211L, 212-212L, 301-301L, 302-302A or B, and 11 additional hours—34-35 semester hours. Also required: Mathematics 110, Physics 203-203L, 204-204L, or 251-251L-251R, 252-252L-252R; 20 hours of approved electives.

For a major (Education): 103-103L, 104-104A, 211-211L, 212-212L, 301-301L, 302-302A or B, and 6 additional hours—29—30 semester hours. Also required: Physics 203-203L, 204-204L or 251-251L-251R, 252-252L-252R; Mathematics 110 and 5 additional hours of mathematics.

For a major in Chemistry-Technology and Management (Science and Technology): Chemistry 103-103L, 104-104A, 211-211L, 212-212L, 301-301L, 302-302B, 321-321L, 322-322L, advanced chemistry elective, 4 hours—35 semester hours. Also required: Accounting 205, 206; Biology 101-101L, 102-102L;

¹This course may be repeated any number of times. No more than 6 hours may be applied toward the M.S. degree.

Business Economics 212, 213; Economics 201, 202, 310 or 330; Management 322; Marketing 323; Mathematics 103, 109, 110, 211; Physics 203-203L, 204-204L.

For a major in science (Education): a minimum of 44 semester hours as follows: Biology 101-101L, 102-102L, 124, 125, and 4 additional hours of biological sciences; Chemistry 103-103L, 104-104A or B, and 4 hours of chemistry electives chosen from courses numbered 200 or above; Geology 103-103L, 104-104L; Physics 203-203L, 204-204L or 251-251L-251R, 252-252L-252R; 309.

For a minor in science (Education): students in the College of Education who are not majoring in 1 of the sciences are permitted to minor in science by earning a total of 24 semester hours as follows:

To be certified to teach chemistry and general science: 12 hours in chemistry, 6 in biology, and 6 in physics. Chemistry 111 or Physics 111 may not be used to meet these requirements.

For a minor: at least 20 semester hours, including 103-103L and 104-104A or B. (Students in the College of Education who wish to minor in chemistry rather than in science must also take 6 hours of biology and 6 hours of physics.)

MEDICAL TECHNOLOGY

Education for medical technology calls for a baccalaureate degree program which includes clinical experience in an associated hospital as the senior year. Following this training, students can take the certification examination of the Board of Registry of Medical Technologists of the American Society of Clinical Pathologists to obtain the professional title, MT(ASCP). The program is outlined in the College of Science and Technology curricula.

PRE-MEDICINE OR PRE-DENTISTRY

Students preparing for admittance to medical school can major in chemistry and minor in zoology utilizing the Chemistry (612) curriculum. The electives are to be used to complete the requirements of the medical school(s) to which the student plans to apply.

CHEMICAL TECHNOLOGY

Associate Degree (two-year program)

Requirements: Chemistry 103-103L, 104-104A, 203-203L, 204-204L, 211-211L, 212-212L; Computer Science 102; English, 6 hours; Industrial Education Technology 102-102L, 106-106L, 222; Mathematics 103, 109, 206; Orientation; Physical Education, 2 hours including PE 1; Physics 203-203L, 204-204L; 6 hours of electives—65 semester hours.

Requirements for the Master of Science

Undergraduate preparation for a major: 103-103L, 104-104A, 211-211L, 212-212L, 301-301L, 302-302A or B, 321-321L, or equivalent; reading knowledge of 1 foreign language.

A satisfactory written entrance examination in whichever of the following are offered as part of the undergraduate work: analytical chemistry, biochemistry, inorganic chemistry, organic chemistry, and physical chemistry. These tests may be omitted with the consent of the department head.

Credit for 404-404L, 414, 416-416L, or their equivalents.

Twenty-four semester hours of graduate credit including 12 semester hours of 500-level courses in chemistry exclusive of research and seminar credits. Two semester hours of credit in seminar and enrollment every semester.

A satisfactory thesis.

Undergraduate preparation for a minor, as defined by Northwestern State University or the equivalent.

Requirements for the Master of Science in the Natural Sciences

Undergraduate preparation for a major: at least 16 semester hours of chemistry, including 103-103L, 104-104A or B, or their equivalents.

A minimum of 33 semester hours, including at least 3 hours in chemistry research problems, or an equivalent course requiring research procedures; results of major investigative report presented at chemistry departmental seminar; copies of report filed in appropriate offices.

A minimum of 15 hours, including research problems, but not more than 21 hours of chemistry; the remainder of the hours distributed in accordance with the student's interests and with his committee's approval; they must be chosen from courses in the College of Science and Technology.

The committee for a student in this program will consist of 4 members, with at least 2 members from departments other than the Chemistry Department.

For the Master of Science in Education

Undergraduate preparation for a major: 14 semester hours chosen from the following courses: 103-103L, 104-104A, 211-211L, 212-212L, 301-301L, 302-302A or B, or their equivalents.

Special requirements for a major: 501, 502, 503, 504, or their equivalents.

Undergraduate preparation for a minor: 12 semester hours chosen from the following courses or their equivalents: 103-103L, 104-104A or B, 211-211L, 301-301L.

Special requirements for a minor: 211-211L, 212-212L, 302-302A or B, or their equivalents.

Courses marked with an asterisk (*) are those courses in which formal written reports in lieu of a thesis may be submitted.

Seminar participation: all graduate students are required to participate in departmental seminars.

For the Specialist in Education Degree Concentration in Chemistry

- (1) A minimum of 27 semester hours of graduate credit in science chosen so as to meet the following special requirements:
 - (a) A satisfactory written entrance examination in whichever of the following are offered as part of the prior work: general chemistry, analytical chemistry, organic chemistry, physical chemistry, biochemistry, or inorganic chemistry. The general chemistry examination will not be required of students who have completed an M.S. or M.S. in Education with a major in chemistry.
 - (b) Credit for 211-211L, 212-212L, 301-301L, 302-302A or B, 501, 502, 503, 504, or equivalents.
 - (c) Eighteen hours of graduate credit in chemistry, exclusive of research or seminar.
 - (d) Enrollment in seminar every semester or summer session in residence.
- (2) Required professional education courses — 27 semester hours. (The Chemistry Department strongly advises Education 515 and a methods course consisting of modern approaches to chemistry, including a CHEM Study and CBA.)
- (3) Elective: 3 semester hours.
- (4) Education 598 — thesis 6 hours.
- (5) Minimum hours required: 63, including master's degree credit.

Courses of Instruction

Each lecture course and related laboratory course is a combination taught as a unit; the 2 courses must be taken concurrently. If 1 is dropped, the other must be dropped at the same time. If either course in such a lecture/laboratory combination is failed, it may be repeated without repeating the other.

For Undergraduates Only

103. GENERAL CHEMISTRY 3 hours. Principles of modern chemistry including atomic and molecular structure, chemical bonding, properties of gases, liquids and solids, and chemistry of some non-metals. Designed for students who plan to take 104 and 200 or 300-level chemistry courses. Prerequisites: registration in or credit for 103L; satisfactory entrance test score or credit in Mathematics 103, 105 or 116.

103L. GENERAL CHEMISTRY LABORATORY. 1 hour. Basic experiments in general chemistry. Laboratory 3 hours. Prerequisite: registration in or credit for 103.

103R. GENERAL CHEMISTRY RECITATION. 1 hour. Recitation is suggested for students having a weak background in chemistry and mathematics. This course may not be used to fulfill the requirements of any degree. Prerequisite: registration in 103.

104. GENERAL CHEMISTRY. 3 hours. Continuation of 103. Chemical equilibrium, chemistry of metals and some of their compounds; brief introduction to nuclear chemistry. Prerequisites: registration in or credit for 104A or B, or 107-107L and consent of department head.

104A. GENERAL CHEMISTRY LABORATORY. 1 hour. Identification of common inorganic ions; an introduction to quantitative inorganic analysis; and experiments on chemical equilibria. This laboratory course is a prerequisite for 211. Laboratory 3 hours. Prerequisite: registration in or credit for 104.

104B. GENERAL CHEMISTRY LABORATORY. 1 hour. Continuation of 103L. Students who will not take 211 should take this course in conjunction with 104. Laboratory 3 hours. Prerequisite: registration in or credit for 104.

104R. GENERAL CHEMISTRY RECITATION. 1 hour. Recitation is suggested for students having a weak background in chemistry and mathematics. This course may not be used to fulfill the requirements of any degree. Prerequisite: Registration in 104.

107. GENERAL CHEMISTRY. 3 hours. Principles of chemistry including the structure of the atom, valence, and bonding; significance of the formula and equation; elementary molecular explanations for behavior of gases, liquids, and solids; properties of selected elements and their compounds. Designed for students planning to terminate their study of chemistry with 107 or 108. Prerequisites: registration in or credit for 107L; satisfactory entrance test score or credit in Mathematics 103, 105 or 116. (formerly 103B)

107L. GENERAL CHEMISTRY LABORATORY. 1 hour. Experiments in general chemistry. Laboratory 2 hours. Prerequisite: registration in or credit for 107.

107R. GENERAL CHEMISTRY RECITATION. 1 hour. Recitation is suggested for students having a weak background in chemistry and mathematics. This course may not be used for credit towards degree. Prerequisite: Registration in 107.

108.¹ INTRODUCTORY ORGANIC AND BIOCHEMISTRY. 3 hours. Chemistry of carbon compounds with emphasis on reactions and compounds of importance to life processes. Prerequisites: 103-103L or 107-107L.

111.² CHEMISTRY AND MAN'S ENVIRONMENT. 3 hours. Application of chemical principles to air and water pollution, overpopulation, hallucinogenic drugs and other areas of current interest.

203. ORGANIC CHEMISTRY. 3 hours. Hydrocarbons, alcohols, acids, carbon and nitrogen compounds; introduction to chemistry of lipids, carbohydrates, and amino acids. May not be used to meet requirements for a chemistry major or minor. Prerequisites: registration in or credit for 203L; 104-104A or B.

203L. ORGANIC CHEMISTRY LABORATORY. 1 hour. General experiments in organic chemistry. Laboratory 3 hours. Prerequisite: registration in or credit for 203.

204. PHYSIOLOGICAL CHEMISTRY. 3 hours. Continuation of 203. Chemistry of proteins, nucleic acids, and enzymes and the metabolism of carbohydrates, lipids, proteins and nucleic acids; brief review of blood and urine chemistry. May not be used to meet requirements for a major or minor in chemistry. Prerequisites: registration in or credit for 204L; 203-203L.

204L. PHYSIOLOGICAL CHEMISTRY LABORATORY. 1 hour. General experiments in physiological chemistry. Laboratory 3 hours. Prerequisite: registration in or credit for 204.

209. TOPICS IN PHYSICAL SCIENCE FOR TEACHERS. 2-4 hours. General or specialized topics in physical science of interest to teachers. Prerequisite: consent of department head.

211. QUANTITATIVE ANALYSIS. 3 hours. Chemical equilibrium, pH and indicators, solutions, oxidation-reduction and the calculations of analytical chemistry; reliability of measurements; theory and applications of gravimetric, volumetric, and other representative analytical procedures. Prerequisites: registration in or credit for 211; 104-104A.

211L. QUANTITATIVE ANALYSIS LABORATORY. 1 hour. General experiments in inorganic quantitative analysis. Laboratory 3 hours. Prerequisite: registration in or credit for 211.

212. INTRODUCTION TO INSTRUMENTAL ANALYSIS. 2 hours. An introduction to instrumental analysis. Prerequisites: registration in or credit for 212L; 211-211L.

212L. INTRODUCTORY INSTRUMENTAL LABORATORY. 1 hour. Laboratory will utilize pH, polarographic, absorption spectroscopic and emission spectroscopic measurements and separation techniques such as gas, thin layer and ion exchange chromatography, liquid-liquid extraction, and electro-deposition for chemical analysis. Laboratory 3 hours. Prerequisite: registration in or credit for 212.

221. INTRODUCTION TO MATHEMATICAL CHEMISTRY. 3 hours. Mathematical methods of chemistry with application to selected chemical problems. Suggested as a prerequisite for Chemistry 321 for persons with a weak

¹This course is designed for students in agriculture, home economics, nursing, and other programs requiring terminal courses in chemistry, and may not be counted toward a chemistry major or minor. Credit may not be obtained for 108 and 203 or 301.

²This course not acceptable for credit in either a minor or a major in chemistry and cannot be used to meet certification requirements for teaching chemistry.

background in applied mathematics. Prerequisites: 104-104A or B; Mathematics 211.

490. UNDERGRADUATE SEMINAR. 1 hour. Oral reports on current literature or student research in chemistry. May be repeated any number of times, but no more than 2 semester hours may be applied toward a B.S. degree.

495.¹ RESEARCH PROBLEMS IN CHEMISTRY. 1-4 hours. Individual laboratory investigation of a topic outside the scope of existing courses; laboratory and conference as required; results presented both in formal report and orally, either at departmental seminar or professional meeting. Prerequisite: consent of department head.

For Undergraduates and Graduates

301.² ORGANIC CHEMISTRY. 3 hours. First half of a 1-year course covering preparation, properties, uses, and mode of reaction of representative aliphatic and aromatic compounds; halides, hydrocarbons, stereochemistry and spectroscopy. Prerequisites: registration in or credit for 301L; 104-104A or B.

301L. ORGANIC CHEMISTRY LABORATORY. 1 hour. Basic experiments in organic chemistry. Laboratory 3 hours. Prerequisite: registration in or credit for 301.

302. ORGANIC CHEMISTRY. 3 hours. Second half of a 1-year course covering preparation, properties, uses, and mode of reaction of representative aliphatic and aromatic compounds; emphasis on alcohols, aldehydes, ether, ketones, amines, acids and their derivatives. Prerequisites: registration in or credit for 302 A or B; 301-301L.

302A. ORGANIC CHEMISTRY LABORATORY. 2 hours. Continuation of 301L. Preparation and qualitative analysis of a number of organic compounds. For students following the Professional Chemistry Curriculum. Laboratory 6 hours. Prerequisite: registration in or credit for 302.

302B. ORGANIC CHEMISTRY LABORATORY. 1 hour. Continuation of 301L. Laboratory 3 hours. Prerequisite: registration in or credit for 302.

320. INTRODUCTORY BIO-PHYSICAL CHEMISTRY. 3 hours. A descriptive course in physical chemistry for students majoring in the life sciences. Topics of fundamental importance in the physical chemistry of biological systems are covered, with special emphasis on thermodynamics, enzyme kinetics, and macromolecules. Prerequisites: 211-211L, 302-302 A or B. Mathematics 103 and 109 (Mathematics 110 is suggested but not mandatory). Course will be taught on demand during the summer session.

321. PHYSICAL CHEMISTRY. 3 hours. Properties of substances in the gaseous, liquid, and solid state; solutions, chemical thermodynamics. Prerequisites: registration in or credit for 321L; 211-211L (except for physics majors); a year of general physics and calculus.

321L. PHYSICAL CHEMISTRY LABORATORY. 1 hour. General experiments in physical chemistry. Laboratory 3 hours. Prerequisite: registration in or credit for 321.

322. PHYSICAL CHEMISTRY. 3 hours. Continuation of 321. Homogeneous and heterogeneous equilibria; kinetics of reactions; electrochemistry, spectroscopy. Prerequisites: registration in or credit for 322L; 321-321L.

322L. PHYSICAL CHEMISTRY LABORATORY. 1 hour. Continuation of 321L. Laboratory 3 hours. Prerequisite: registration in or credit for 322.

¹Course may be repeated any number of times, but no more than 4 hours may be applied toward a degree.

²Credit not allowed for both 203 and 301-302.

404. GENERAL BIOCHEMISTRY. 3 hours. Chemistry of constituents of living matter, including carbohydrates, lipids, proteins, nucleic acids, inorganic and other organic materials; introduction to chemistry of enzymes as highly specific protein catalysts. Prerequisites: registration in or credit for 404L; 211-211L, 302-302 A or B, 321-321L.

404L. GENERAL BIOCHEMISTRY LABORATORY. 1 hour. General experiments in biochemistry with emphasis on the use of modern biochemical-type instrumentation. Laboratory 3 hours. Prerequisite: registration in or credit for 404.

405. GENERAL BIOCHEMISTRY. 3 hours. Continuation of 404. Chemical transformations in living matter; metabolism of carbohydrates, lipids, proteins, nucleic acids, and other biochemical materials. Prerequisite: 404-404L.

413. INTRODUCTION TO QUANTUM CHEMISTRY. 3 hours. Methods of quantum mechanics applied to molecular spectra, chemical bonding and other chemical properties. Prerequisites: 322-322L.

414. INORGANIC CHEMISTRY. 3 hours. Theories of inorganic chemistry, including atomic, molecular and crystal structure, thermochemical and electrochemical properties, acidity, solvent systems and coordinated compounds. Prerequisites: 322-322L.

415. IDENTIFICATION OF ORGANIC COMPOUNDS. 3 hours. Modern chemical and spectroscopic methods for the identification of organic compounds, with emphasis on ultraviolet, infrared, nuclear magnetic and mass spectroscopy. Prerequisite: registration in or credit for 415L.

415L. IDENTIFICATION OF ORGANIC COMPOUNDS LABORATORY. 1 hour. Identification of organic compounds by modern chemical and spectroscopic methods. Laboratory 3 hours. Prerequisite: registration in or credit for 415.

416. ADVANCED INSTRUMENTAL ANALYSIS. 2 hours. Advanced procedures for inorganic and organic product analysis; employment of representative group of instrumental methods. Prerequisites: registration in or credit for 416L; 322-322L.

416L. ADVANCED INSTRUMENTAL LABORATORY. 2 hours. Laboratory 6 hours. Prerequisite: registration in or credit for 416.

420. CHEMICAL LITERATURE. 1 hour. Chemical literature; reports with references on topics chosen by instructor; paper involving comprehensive literature search on topic chosen by student. Prerequisite: senior standing.

422. ORGANIC REACTIONS. 3 hours. Organic reactions, particularly those of synthetic importance; stereochemistry, mechanisms, oxidation, reduction, condensation, and reactions of polyfunctional compounds. Prerequisites: 302-302A, 322-322L, or consent of department head.

For Graduates Only

Analytical Chemistry

540. THEORY OF ANALYTICAL PROCESSES. 3 hours. Principles of classical and instrumental techniques of analytical chemistry from physicochemical viewpoint; activity coefficients, solvation and other solute-solvent interactions, ionic association and ionic size; acid-base reactions in aqueous and non-aqueous solutions, redox and precipitation processes and complexation coprecipitation; theory of titration curves, kinetic analysis and theory of analytical separations. Prerequisite: 322-322L.

550. SPECIAL TOPICS IN ANALYTICAL CHEMISTRY. 2-4 hours. Advanced or specialized topics in analytical chemistry presented at irregu-

lar intervals. Example topics: analytical absorption spectroscopy, electro-analytical chemistry and advanced analytical techniques. Prerequisite: consent of adviser.

Biochemistry

527. ENZYME CHEMISTRY. 3 hours. Separation, isolation, and classification of enzymes; kinetics, thermodynamics, and mechanisms of enzyme catalysis. Prerequisites: 322-322L, 405.

528. INTERMEDIARY METABOLISM. 3 hours. Current concepts concerning the metabolism of lipids, nucleic acids or proteins. Prerequisite: 405.

551. SPECIAL TOPICS IN BIOCHEMISTRY. 2-4 hours. Advanced or specialized topics in biochemistry presented at irregular intervals. Example topics: biological macromolecules, advanced biochemical methods and cellular metabolism. Prerequisite: consent of adviser.

Inorganic Chemistry

530. ADVANCED INORGANIC CHEMISTRY. 3 hours. Descriptive inorganic chemistry emphasizing the periodicity of elements; preparation and properties of the elements and some representative compounds. Prerequisite: 414.

537. TRANSITION METAL CHEMISTRY. 3 hours. Electronic properties of transition metal complexes utilizing ligand field and molecular orbital theory, their absorption spectra and reaction mechanisms. Prerequisite: 530 or consent of instructor.

552. SPECIAL TOPICS IN INORGANIC CHEMISTRY. 2-4 hours. Advanced or specialized topics in inorganic chemistry presented at irregular intervals. Example topics: crystallography, boron chemistry and chemistry of coordination compounds. Prerequisite: consent of adviser.

Organic Chemistry

518. MECHANISMS OF ORGANIC REACTIONS. 3 hours. Methods of investigating mechanisms of organic reactions; consideration of effects of changes of structures and conditions on direction and rates of reaction. Prerequisites: 302-302A or B, 322-322L.

523. PHYSICAL ORGANIC CHEMISTRY. 3 hours. Structure of organic compounds including molecular orbital and valence bond theory; linear free energy relationships, photochemistry, applications of kinetics and thermodynamics to organic systems. Prerequisites: 302-302A or B, 322-322L.

553. SPECIAL TOPICS IN ORGANIC CHEMISTRY. 2-4 hours. Advanced or specialized topics in organic chemistry presented at irregular intervals. Example topics: heterocyclic chemistry, stereochemistry, and research techniques in organic chemistry. Prerequisite: consent of adviser.

Physical Chemistry

525. CHEMICAL THERMODYNAMICS. 3 hours. Equilibrium and non-equilibrium thermodynamics from both statistical and classical points of view with application to chemical and physical problems. Prerequisites: 322-322L.

529. CHEMICAL KINETICS. 3 hours. Rates of chemical reactions; relationship of kinetic studies to determination of reaction mechanisms; theoretical treatment includes discussions of kinetic theory and the transition-state theory approaches to chemical kinetics. Prerequisites: 322-322L.

535. ADVANCED PHYSICAL CHEMISTRY. 3 hours. Basic ideas and

methods of quantum mechanics and statistical mechanics, with emphasis on application of these theories to investigation of molecular structure and to molecular spectroscopy; basic concepts of group theory and normal coordinate analysis in molecular calculations. Prerequisite: 413 or consent of instructor.

554. SPECIAL TOPICS IN PHYSICAL CHEMISTRY. 2-4 hours. Advanced or specialized topics in physical chemistry presented at irregular intervals. Topics include: electrochemistry, advanced quantum chemistry and statistical mechanics. Prerequisite: consent of adviser.

For Teachers

500.¹ GENERAL CHEMICAL PRINCIPLES FOR TEACHERS. 3-8 hours. Principles of chemistry, including the states and the chemical transformation of matter with emphasis on recent developments. Designed for teachers who need refresher courses in chemistry. Lecture 3-6 hours, laboratory 0-6 hours. Prerequisite: consent of department head.

501.¹ TOPICS IN PHYSICAL CHEMISTRY FOR TEACHERS. 2-4 hours. General or specialized topics in physical chemistry of interest to science teachers. Prerequisite: consent of department head.

506.¹ TOPICS IN BIOCHEMISTRY AND ORGANIC CHEMISTRY FOR TEACHERS. 3 hours. Chemistry of life processes and of the organic compounds of importance to those processes. Prerequisites: 211-211L, 301-301L, 302-302A or B, or equivalent.

509.¹ TOPICS IN PHYSICAL SCIENCE FOR TEACHERS. 2-4 hours. General or specialized topics in physical science of interest to teachers. Prerequisite: consent of department head.

Other Courses

590. SEMINAR. 1 hour.

***595.² RESEARCH PROBLEMS IN CHEMISTRY.** 1-6 hours.

598. THESIS. Maximum, 6 hours.

GEOLOGY

JOHN D. WASKOM, *Associate Professor and Department Head*

Assistant Professors: DeHon, Dobbins.

Undergraduate Requirements

For a major (Science and Technology): 103-103L, 104-104L, 301-301L, 302-302L, 304-304L, 307-307L, 308-308L, 402-402L, 403, 404-404L, 405—43 semester hours. Also required: Biology 101-101L, 102-102L; Chemistry 103-103L, 104-104B; Engineering Drawing 106-106L; foreign language, 10 hours; Geography 309; Mathematics 110, 205; Physics 203-203L, 204-204L or 251-251L-251R, 252-252L-252R.

For a major in science (Education): students in the College of Education are permitted to major in science by earning a minimum of 44 semester hours as follows: Biology 101-101L, 102-102L, 124, 125, and 4 additional hours of biological sciences; Chemistry 103-103L, 104-104B, and 4 hours of chemistry

¹This course may be applied to requirements for the M.A. in Ed., M.Ed., and/or M.S. in Ed. degrees.

²This course may be repeated any number of times. No more than 6 hours may be applied toward the M.S. degree.

electives chosen from courses numbered 200 or above; Geology 103-103L, 104-104L; Physics 203-203L, 204-204L, 309.

For a minor (except in Education): 103-103L, 104-104L, and 8 additional hours—16 semester hours.

Graduate Requirements for the Master of Science Degree in Geology

Undergraduate preparation for a major: credit in undergraduate courses equivalent to 103-103L, 104-104L, 304-304L, 307-307L (16 hours). Additional courses may be required by the student's graduate committee depending on the student's area of interest.

Special requirements for a major: 24 semester hours of graduate credit including 18 semester hours listed by the Department of Geology and a satisfactory thesis; credit for 450-450L and 453 or their equivalents; enrollment in seminar each semester with 2 hours of credit being counted toward the degree; at least 1 year of a foreign language or a reading knowledge of a foreign language (French, German, or Russian). A student beginning graduate study will be required to take an examination preceding general registration to evaluate his general background in geology. This examination will be used to determine the student's understanding of basic subjects and to assist in advising him concerning his program. If a student is deficient in any subject(s), these must be corrected without graduate credit at the earliest possible date.

Undergraduate preparation for a minor: 16 semester hours in geology.

Master of Science in the Natural Sciences

Undergraduate preparation for a major: a minimum of 24 hours to include the following: 103-103L, 104-104L, 301-301L, 304-304L, 307-307L, 308-308L, or their equivalent.

Special requirements for a major: a student will complete a minimum of 15 hours, including research problems, but may not present more than 21 hours in the major department. Credit for 403 (6 hours). The remainder of the hours will be distributed in accordance with the student's interests and with his committee's approval, but must be chosen from courses in biological science, chemistry, mathematics, microbiology, and physics.

Undergraduate preparation for a minor: 16 semester hours in geology.

Graduate preparation for a minor: a minimum of 9 semester hours in geology.

Courses of Instruction

Each lecture course and related laboratory course is a combination taught as a unit; the 2 courses must be taken concurrently. If 1 is dropped, the other must be dropped at the same time. If either course in such a lecture/laboratory combination is failed, it may be repeated without repeating the other.

For Undergraduates Only

103. PHYSICAL GEOLOGY. 3 hours. Nature and structure of materials that compose the earth and processes which have shaped or are shaping the earth. Origin of rocks, minerals, and soils; agents of weathering and erosion; topographic features and their origins; surface and sub-surface waters; glaciers and glaciation; rock structures and their economic significance. Prerequisite: registration in or credit for 103L.

103L. PHYSICAL GEOLOGY LABORATORY. 1 hour. Rocks and rock-forming minerals; interpretation of topographic maps, aerial photographs, and geologic structures. Laboratory 3 hours. Prerequisite: registration in or credit for 103.

104. HISTORICAL GEOLOGY. 3 hours. Origin and geological history of the earth and development of its animal and plant inhabitants; prehistory of the earth as revealed in rocks and fossils. Prerequisites: registration in or credit for 104L; 103-103L.

104L. HISTORICAL GEOLOGY LABORATORY. 1 hour. Identification and morphology of common fossils; interpretation of geologic maps, folios, and structure sections. Laboratory 3 hours. Prerequisite: registration in or credit for 104.

111. EARTH SCIENCE. 3 hours. Cycles and rhythms of geological processes; geological history of the earth and the impact of man on the geological environment.

301. INVERTEBRATE PALEONTOLOGY. 3 hours. Classification, structure, distribution, and evolution of invertebrates of past ages; examination of typical fossils of each group. Prerequisites: registration in or credit for 301L; while not required, 104-104L is advised; Biology 102-102L.

301L. INVERTEBRATE PALEONTOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 301.

302. SEDIMENTATION. 3 hours. Classification, composition, texture, structure, and genesis of sedimentary rocks; techniques of shape, mineralogical and chemical analysis of sediments. Prerequisite: registration in or credit for 302L.

302L. SEDIMENTATION LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 302.

304. STRUCTURAL GEOLOGY. 3 hours. Origin, description, and classification of the earth's major structures and their economic significance. Prerequisites: registration in or credit for 304L; 104-104L; Engineering Drawing 106-106L; Mathematics 109.

304L. STRUCTURAL GEOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 304.

307. CRYSTALLOGRAPHY AND MINERALOGY. 2 hours. Introduction to crystal systems, classes, and forms; chemical and physical properties, and genesis of minerals; principles of identification of ore- and rock-forming minerals. Prerequisites: registration in or credit for 307L; 104-104L; Chemistry 104-104B.

307L. CRYSTALLOGRAPHY AND MINERALOGY LABORATORY. 2 hours. Laboratory 6 hours. Prerequisite: registration in or credit for 307.

308. PETROLOGY. 2 hours. Description, classification, and origin of sedimentary, igneous, and metamorphic rocks using hand specimens. Prerequisites: registration in or credit for 308L; 307-307L.

308L. PETROLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 308.

495.¹ SENIOR RESEARCH PROBLEMS IN GEOLOGY. 1-4 hours. Individual laboratory and field investigations of topics outside existing courses; laboratory and/or field work and conference as required. The results of the investigation will be presented both in a formal written report and orally either in a departmental seminar or at a professional meeting. Prerequisite: consent of department head.

For Undergraduates and Graduates

401. NON-METALLIFEROUS ECONOMIC GEOLOGY. 3 hours. Origin, classification, and distribution of non-metalliferous economic mineral and

¹This course may be taken any number of times, but no more than 4 semester hours may be applied toward a degree.

rock deposits except petroleum. Prerequisites: 104-104L (304-304L and 308-308L are recommended).

402. METALLIFEROUS ECONOMIC GEOLOGY. 2 hours. Origin, classification, and geology of metalliferous economic mineral deposits; hand-specimen and polished-section identification of ore minerals and paragenesis. Prerequisites: registration in or credit for 402L; 308-308L.

402L. METALLIFEROUS ECONOMIC GEOLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 402.

403. FIELD GEOLOGY. 6 hours. Practical field techniques in geological mapping including use of compass, aerial photographs, topographic maps, geological maps, plane table and structure cross sections; preparation of a geologic report. Summer field course (6 weeks). Prerequisites: 302-302L, 304-304L, 308-308L.

404. INTRODUCTION TO GEOPHYSICS. 3 hours. Magnetic, gravitational, seismic, electrical and radioactive properties of the earth and their application in science and industry. Prerequisites: registration in or credit for 404L, 104-104L; Physics 204-204L or 252-252L-252R.

404L. INTRODUCTION TO GEOPHYSICS LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 404.

405. GEOMORPHOLOGY. 3 hours. Principal geomorphic systems and erosional processes that cause them. Prerequisites: 104-104L (304-304L is recommended).

410. STRATIGRAPHY. 3 hours. Principles of stratigraphy; use of lithofacies concepts in stratigraphic analysis. Prerequisites: 302-302L.

450. OPTICAL MINERALOGY AND PETROLOGY. 2 hours. Fundamentals of optical crystallography; identification of minerals in immersion media and thin section. Prerequisites: registration in or credit for 450L; 308-308L.

450L. OPTICAL MINERALOGY AND PETROLOGY LABORATORY. 2 hours. Laboratory 6 hours. Prerequisite: registration in or credit for 450.

451. PRINCIPLES OF GEOCHEMISTRY. 3 hours. Basic chemical concepts applied to the solution of geological problems; origin and distribution of the elements. Prerequisites: registration in or credit for 451L; 307-307L; 1 year of general chemistry.

451L. PRINCIPLES OF GEOCHEMISTRY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 451.

452. CLAY MINERALOGY. 3 hours. Origin, structural chemistry, and identification of clay minerals including application of X-ray diffraction techniques. Prerequisites: registration in or credit for 452L; 302-302L; 307-307L; 1 year of general chemistry.

452L. CLAY MINERALOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 452.

453. STATISTICAL MODELS IN GEOLOGY. 3 hours. Statistical and probabilistic techniques in geology. Prerequisites: 302-302L, 304-304L, 308-308L; Mathematics 110, 205.

For Graduates Only

500.^{1,2} PRINCIPLES OF GEOLOGY FOR SCIENCE TEACHERS. 3-4 hours. Earth's place in the solar system; nature of materials composing the

¹Not more than 4 hours of credit may be applied to requirements for the M.A. in Ed., M.Ed., or M.S. in Ed. degrees. Only 8 hours of science courses bearing the number 500 may be applied to the above mentioned degrees.

²This course may be counted for graduate credit only toward the degree of Master of Science in Education.

earth; processes which have shaped and are shaping the earth; rocks, minerals, soils, fossils; topographic features and their origin; origin and economic significance of rock structures; origin and geological history of the earth; evolution of animals and plants; topographic and geological maps and aerial photographs. Prerequisite: registration in or credit for 500L.

500L. PRINCIPLES OF GEOLOGY FOR SCIENCE TEACHERS LABORATORY. 1-2 hours. Laboratory 3-6 hours. Prerequisite: registration in or credit for 500.

501. ADVANCED IGNEOUS AND METAMORPHIC PETROLOGY. 2 hours. Advanced topics in the origin and classification of igneous and metamorphic rocks; textural relationships and model analysis in thin section. Prerequisites: registration in or credit for 501L; 450-450L; 1 year of general chemistry.

501L. ADVANCED IGNEOUS AND METAMORPHIC PETROLOGY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 501.

502. X-RAY MINERALOGY. 2 hours. Fundamentals of X-ray crystallography; analysis of minerals by the powder method. Prerequisites: registration in or credit for 502L; 307-307L; graduate standing in geology or the physical sciences.

502L. X-RAY MINERALOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 502.

506. GEODYNAMICS. 3 hours. Physics of the earth; mantle and crustal structures; tectonics. Prerequisites: 304-304L, 404-404L.

507. SEISMOLOGY. 3 hours. Theory of earthquakes and related phenomena. Prerequisites: 404-404L.

508. APPLIED GEOPHYSICS. 2 hours. Theory and application of gravimetric, magnetic, electric, seismic, radioactive and other geophysical techniques. Prerequisites: registration in or credit for 508L; 303-304L, 404-404L.

508L. APPLIED GEOPHYSICS LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 508.

510. ADVANCED GEOCHEMISTRY. 3 hours. Presentation and discussion of selected topics in geochemistry; individual reports and a term paper. Prerequisites: registration in or credit for 510L; 451-451L.

510L. ADVANCED GEOCHEMISTRY LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 510.

515. ADVANCED SEDIMENTATION. 3 hours. Presentation and discussion of selected topics in sedimentation; individual reports and a term paper. Prerequisites: registration in or credit for 515L; 302-302L.

515L. ADVANCED SEDIMENTATION LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 515.

590. SEMINAR. 1 hour. Reports of current literature and research projects by graduate students and staff.

595. RESEARCH PROBLEMS IN GEOLOGY. 1-6 hours per semester; no more than 6 hours may be applied toward a degree.

598. THESIS. 1-6 hours. No more than 6 hours may be applied toward a degree.

INDUSTRIAL EDUCATION AND TECHNOLOGY

WALTER J. ROBINSON, *Professor and Department Head*

Professor: Shaw; Associate Professors: Gilbert, Wommack

Assistant Professors: Carney, Christensen, Dunagan, Muns

Instructor: Galloway

Curricula

Undergraduate Requirements

INDUSTRIAL ARTS EDUCATION

Requirements for a major: Industrial Education and Technology 102-102L, 104-104L, 106-106L¹, 107-107L, 110-110L, 111-111L, 120-120L, 200-200L, 202-202L, 206-206L, 214-214L, 308 and 6 hours in industrial education and technology electives in each of 3 different areas in the Department—60 semester hours.

MANUAL ARTS THERAPY EDUCATION

Requirements for a major: Industrial Education and Technology 102-102L, 104-104L, 106-106L¹, 107-107L, 110-110L, 111-111L, 120-120L, 200-200L, 202-202L, 214-214L, 303-303L or 304-304L, 308, 330, 331, 332—54 semester hours.

Special requirements: Biology 101-101L; Physical Education 355; Psychology 442; Sociology 101; Speech 101; Zoology 123-123L.

INDUSTRIAL EDUCATION (Vocational)

Requirements for a major: Industrial Education and Technology 106-106L¹, 126, 211, 212, 314, 407 or 308, 423, 425, and 6 hours in industrial education and technology electives—30 semester hours.

The Vocational-Industrial Education curriculum is designed primarily for those students who can qualify to teach in a federal reimbursable program. However, non-majors may use any of the courses as free electives.

Before a student is permitted to major in vocational-industrial education, he must present credentials from his state board of education, signed by the state supervisor of trade and industrial education, certifying his trade experience.

Students who pass a satisfactory examination in their trade experience may receive advanced standing. A maximum of 32 semester hours' credit in vocational-industrial education may be allowed for trade experience. The amount of credit will be determined by the head of the Department and the dean.

The following courses are approved by the State Board of Education for vocational-industrial teacher certification: 126, 210, 211, 212, 322, 401, 402, 403, 404, 407, 425, 501, 503, 507.

AVIATION SCIENCE

(College of Science and Technology)

For a minor in Aviation Science: Aviation Science 105, 204, 205, 300, 410, 110L, 111L, 210L, 211L, 212L, 213L, 310L, and 311L—23 semester hours.

For admission as a minor to the Aviation Science curriculum, all applicants must meet the requirements for admission to Northwestern State University as prescribed in the General Catalogue. To be admitted to the curriculum, the student must satisfactorily pass a second-class medical examination administered by a Federal Aviation Administration (FAA) approved physician. The expense of the flight labs or flight courses in Aviation Science are in addition to the regular University tuition fees. The special flight fees will vary in accord-

¹Students may take a proficiency test if 2 units of mechanical drawing were completed in high school.

ance with solo, dual, type aircraft, and operational costs. VA benefits are available to those who qualify.

In conjunction with the approval from the FAA, the University provides the flight training to qualify for the following certificates and ratings: (1) Private Pilot Certificate; (2) Commercial Pilot Certificate; (3) Instrument Rating; (4) Flight Instructor Certificate; (5) Instrument Flight Instructor Rating; (6) Multi-Engine Rating; (7) Airline Transport Rating.

INDUSTRIAL TECHNOLOGY (College of Science and Technology)

For a minor in Industrial Technology: 106-106L¹, 107-107L, 201-201L, 203-203L, and 12 hours in 1 of the following areas: graphic arts or metals 24 semester hours.

ELECTRONIC ENGINEERING TECHNOLOGY

For a major: 102-102L, 104-104L, 106-106L¹, 206-206L, 213-213L, 217-217L, 218-218L, 222, 223-223L, 311-311L, 312-312L, 318-318L, 325-325L, 326-326L, 409, 411—78 semester hours.

Special requirements: Chemistry 103-103L or 107-107L; Economics 201 or 202; Mathematics 103, 109, 110 or 120; Physics 203-203L and 204-204L or 251-251L-251R and 252-252L-252R; Speech 101.

For a minor: 104-104L, 206-206L, 213-213L, and 10 additional hours in electronics courses—28 semester hours.

ELECTRONIC ENGINEERING TECHNOLOGY (Five-Year Cooperative Program)

Students enrolled in this program are required to work in a participating industry on alternate semesters after the first full year of study in the curriculum. The students will be required to work or be in school 3 semesters per year.

For a major: 102-102L, 104-104L, 106-106L¹, 206-206L, 213-213L, 217-217L, 218-218L, 222, 223-223L, 226, 311-311L, 312-312L, 318-318L, 325-325L, 326-326L, 409, 411, 307 and 319 (the student will receive 1 hour of credit per semester of work in Industrial Internship 307 and 319 for a total of 7 semester hours)—86 semester hours.

Special requirements: Chemistry 103-103L or 107-107L; Economics 201 or 202; Mathematics 103, 109, 110 or 120; Physics 203-203L and 204-204L or 251-251L-251R, 252-252L-252R; Speech 101.

GRAPHIC ARTS

For a major: 102-102L, 104-104L, 106-106L¹, 107-107L or 201-201L, 110-110L, 111-111L, 202-202L, 206-206L, 219-219L, 220-220L, 222, 224-224L, 225-225L, 315, 316, 324, 421 or 423—57 semester hours.

Special requirements: Business Economics 104; Economics 201, 202, 313; History 201; Journalism 306; Art 111, 112; Speech 101.

INDUSTRIAL ARTS

For a major (Science and Technology): 102-102L, 104-104L, 106-106L¹, 107-107L, 110-110L, 111-111L, 120-120L, 200-200L, 202-202L, 206-206L, 222, 421 or 423, and 9 hours in industrial education and technology electives; 3 hours in drafting electives— 54 semester hours.

Special requirements: Economics 201, 202, 313; Business Economics 104; literature; History 201; Sociology 101; Speech 101; and 8 hours in allied field electives.

¹Students may take a proficiency test if 2 units of mechanical drawing were completed in high school.

For a minor (except in Education): 102-102L, 104-104L, 106-106L¹, 110-110L, 120-120L, 214-214L, and 3 hours in industrial education and technology.—24 semester hours.

MACHINE-TOOL ENGINEERING TECHNOLOGY

For a major: 102-102L, 104-104L, 106-106L¹, 107-107L, 201-201L, 202-202L, 203-203L, 206-206L, 222, 302-302L, 304-304L, 320-320L, 421, 423—48 semester hours.

Special requirements: Business Economics 104, 325; Economics 201, 313; History 201; journalism, 3 hours; Mathematics 103, 109, 110 or 217, 206; Physics 203-203L, 204-204L; Speech 101.

MACHINE-TOOL ENGINEERING TECHNOLOGY

(Five-Year Cooperative Program)

For a major: 102-102L, 104-104L, 106-106L¹, 107-107L, 201-201L, 202-202L, 203-203L, 206-206L, 222, 226, 302-302L, 304-304L, 307 and 319 (working in industry), 320-320L, 423, and 3 hours in industrial education and technology electives—56 semester hours.

Special requirements: Business Economics 104; Chemistry 107-107L, and 4 hours in chemistry electives; Economics 201; History 201; journalism, 3 hours; Mathematics 103, 109, 110 or 217, 206; Physics 203-203L, 204-204L; Speech 101.

Associate Degree Programs (Two-Year Programs)

DRAFTING TECHNOLOGY

Requirements: 102-102L, 106-106L¹, 107-107L, 201-201L, 202-202L, 203-203L, 303-303L, 309-309L, 320-320L, 423, 3 hours in industrial education and technology electives; economics, 3 hours; English 6 hours; Mathematics 206 and 6 additional hours; Physics 203-203L, 204-204L; Psychology 101, orientation; physical activity, 4 hours including PE1; and 3 hours of electives. Total hours for degree, 68.

ELECTRONICS TECHNOLOGY

Requirements: 104-104L, 206-206L, 213-213L, 217-217L, 222, 223-223L, 312-312L, 318-318L, 325-325L, 326-326L; Chemistry 103-103L or 107-107L; English 101, 102; Mathematics 103, 109, 120; Physics 203-203L; Speech 101; orientation. Total hours for degree, 81.

PRINTING TECHNOLOGY

Requirements: 110-110L, 111-111L, 219-219L, 220-220L, 222, 224-224L, 225-225L, 315, 316, 324, 423; Art 111, 112; Economics, 3 hours; English, 6 hours; mathematics, 6 hours; physical science, 6-8 hours; Psychology 101; physical activity, 4 hours including PE1; orientation. Total hours for degree 68-70.

TOOL AND DIE DESIGN TECHNOLOGY

Requirements: 102-102L, 106-106L¹, 107-107L, 201-201L, 202-202L, 302-302L, 304-304L, 320-320L, 408, 421, 423; Economics, 3 hours; English, 6 hours; Management 322; Mathematics 103, 109; Physics 203-203L, 204-204L; Psychology 101; physical activity, 4 hours including PE1; orientation; elective, 3 hours. Total hours for degree, 68.

WOODWORKING TECHNOLOGY

Requirements: 106-106L¹, 120-120L, 200-200L, 221-221L, 303-303L, 313-313L, 333-333L, 400-400L, 408, 3 hours in technical drawing; economics, 3 hours;

¹Students may take a proficiency test if 2 units of mechanical drawing were completed in high school.

English, 6 hours; Forestry 111-111L; Management 322 or elective; mathematics, 12 hours; physical science, 6-8 hours; Psychology 101; physical activity, 4 hours including PE1; orientation. Total hours for degree, 69-71.

Graduate Requirements for the Master of Science in Education

Undergraduate preparation for a major: 6 semester hours of professional courses in industrial education; 24 semester hours in technical courses representing 3 or more areas in industrial education. (A student who holds a valid trade and industrial certificate may substitute 24 hours in professional industrial education courses for the 24 hours in the technical courses.)

Special requirements for a major: a thesis or any 2 of the following courses: 511, 512, 513, 514, 515, 516, 517, and 518.

Undergraduate preparation for a minor: 20 semester hours of technical courses representing 2 or more areas in industrial education.

Special requirements for a minor: any 2 of the following courses: 511, 512, 513, 514, 515, 516, 517, and 518.

For the Master of Science in Electronic Engineering Technology

Undergraduate preparation for a major: 50 semester hours in electronic engineering technology; 9 semester hours of mathematics; 8 semester hours of physics; and 4 semester hours of chemistry.

Special requirements for a major—3 options.

1. 24 semester hours in graduate level courses in electronic engineering technology and a thesis.

2. 24 semester hours in electronic engineering technology and 2 research papers plus 6 hours from approved allied fields.

3. 24 semester hours in electronic engineering technology, 1 of which requires special research procedures and a formal, written research report plus 9 hours in 1 of the following areas: management, mathematics, psychology or educational psychology, physics, or professional courses in industrial education and technology.

All 400 courses are for undergraduate-graduate credit, with the exception of aviation science. All 500 courses are for graduate credit only.

Courses marked with an asterisk (*) are those courses in which formal written reports in lieu of a thesis may be submitted.

Courses of Instruction

AVIATION SCIENCE

For Undergraduates Only

(Ground Instruction)

105. PRIVATE PILOT GROUND INSTRUCTION. 3 hours. Principles of flight; aircraft engines; meteorology; navigation; radio aids to navigation and Federal Aviation Regulations. Preparatory for the Federal Aviation Administration Private Pilot Written Examination.

204. COMMERCIAL PILOT GROUND INSTRUCTION. 3 hours. Advanced principles of flight, aircraft systems, Federal Aviation Regulations and navigation. Prerequisite: 105.

205. COMMERCIAL PILOT GROUND INSTRUCTION. 3 hours. Continuation of 204. Prerequisite: 204.

300. COMMERCIAL PILOT GROUND INSTRUCTION. 3 hours. Continuation of 205. Preparatory for the Federal Aviation Administration Commercial Pilot Written Examination. Prerequisite: 205.

410. INSTRUMENT GROUND INSTRUCTION. 3 hours. Advanced meteorology; Federal Aviation Regulations on Air Traffic Control Procedures; enroute navigation and communication; chart reading; flight planning; preparatory for the Federal Aviation Administration Instrument Rating Written Examination. Prerequisite: commercial certificate.

411. FLIGHT INSTRUCTOR GROUND INSTRUCTION. 3 hours. Theory of flight; fundamentals of instructing; analysis of maneuvers. Preparatory for the Federal Aviation Administration Flight Instructor Written Examination. Prerequisite: commercial certificate.

412. INSTRUMENT FLIGHT INSTRUCTOR GROUND INSTRUCTION. 3 hours. Theory of flight by reference to instruments; analysis of flight maneuvers by reference to instruments; Federal Aviation Regulations. Preparatory for the Federal Aviation Administration Instrument Instructor Written Examination. Prerequisite: commercial certificate and instrument rating.

413. MULTI-ENGINE GROUND INSTRUCTION. 3 hours. Procedures and technical knowledge to qualify and pass the multi-engine oral phase of the rating. Prerequisite: consent of instructor.

414. AIRLINE TRANSPORT GROUND INSTRUCTION. 3 hours. Flight instruments; meteorology; air traffic control procedures; Federal Aviation Regulations; aircraft performance charts. Preparatory for the Federal Aviation Administration Airline Transport Pilot Written Examination. Prerequisite: consent of instructor.

(Flying Instruction)

110L. PRIVATE FLYING. 1 hour. Twenty hours of flight time, 20 hours of critique. Thirteen hours of dual flight instruction, 7 hours of solo flight time.

111L. PRIVATE FLYING. 1 hour. Twenty hours of flight time, 20 hours of critique. Twelve hours of dual flight instruction, 8 hours of solo flight time. Prerequisite: 110L.

210L. COMMERCIAL FLYING. 1 hour. Twenty hours of flight time, 20 hours of critique. Five hours of dual flight instruction, 15 hours of solo flight time. Preparation for the Commercial Flight Test.

211L. COMMERCIAL FLYING. 1 hour. Twenty hours of flight time, 20 hours of critique. Five hours of dual flight instruction, 15 hours of solo flight time. Preparation for Commercial Flight Test. Prerequisite: 210L.

212L. COMMERCIAL FLYING. 1 hour. Twenty hours of flight time, 20 hours of critique. Three and one-half hours dual flight time in transition aircraft. Also 16½ hours solo flight time. Preparation for the Commercial Flight Test. Prerequisite: 211L.

213L. COMMERCIAL FLYING. 1 hour. Twenty hours of flight time, 20 hours of critique. Three and one-half hours of dual flight time in transition aircraft. Also 16½ hours of solo flight time. Preparation for the Commercial Flight Test. Prerequisite: 212L.

310L. COMMERCIAL FLYING. 1 hour. Twenty hours of flight time, 20 hours of critique. Five hours dual flight instruction, 15 hours of solo flight time. Preparation for the Commercial Flight Test. Prerequisite: 213L.

311L. COMMERCIAL FLYING. 1 hour. Twenty hours of flight time, 20 hours of critique. Five hours of dual flight instruction, 15 hours of solo flight

time. Time ending with qualifications for a Commercial Pilot Certificate. Prerequisite: 310L.

420L. INSTRUMENT FLYING. 1 hour. Sixteen hours of dual instruction. Basic attitude instrument flying. Prerequisite: commercial certificate.

421L. INSTRUMENT FLYING. 1 hour. Sixteen hours of dual flight instruction. Airway instrument procedures and instrument approaches. Prerequisite: 420L.

422L. FLIGHT INSTRUCTOR FLYING. 2 hours. Twenty hours of flight time. Ten hours of dual flight instruction, 10 hours of solo flight time. Provides the student with skills and techniques to analyze maneuvers used in commercial flying. Prerequisite: commercial certificate.

423L. INSTRUMENT FLIGHT INSTRUCTOR FLYING. 1 hour. Ten hours of dual flight instruction. Provides skills for the student to qualify for an instrument rating on the Flight Instructor Certificate. Prerequisite: commercial certificate and instrument rating.

Courses of Instruction

Each lecture course and related laboratory course is a combination taught as a unit; the 2 courses must be taken concurrently. If 1 is dropped, the other must be dropped at the same time. If either course in such a lecture/laboratory combination is failed, it may be repeated without repeating the other.

ELECTRONICS

104. BASIC ELECTRONICS. 3 hours. Electron theory principles of direct current, basic circuit, cells and batteries, resistive networks. Ohm's Law, Kirchoff's Law, Watt's Law, magnetism, electromagnetism, basic meters, use of measuring instruments for direct current, and time constants for RL and RC circuits. Prerequisite: registration in or credit for 104L.

104L. BASIC ELECTRONICS LABORATORY. 3 hours. Laboratory 6 hours. Prerequisite: registration in or credit for 104.

116. TECHNICAL CALCULUS I. 3 hours. Increments as applied to vacuum tube and transistor parameters, derivatives as applied to voltage and current in capacitive and inductive circuits, and differentials and integrals applied to circuit parameters. Prerequisite: Mathematics 109. (Same as Mathematics 120.)

206. ELECTRONICS I. 3 hours. Theory of sinusoidal current, impedance, reactance, resonance, phase relationships, transformers, power factor, and the principles and use of alternating current measuring instruments. Prerequisite: registration in or credit for 206L.

206L. ELECTRONICS I LABORATORY. 3 hours. Laboratory 6 hours. Prerequisite: registration in or credit for 206.

213. ELECTRONICS II. 3 hours. Thevenin's Theorem, Norton's Theorem, superposition principle, semiconductor and vacuum tube principles, load lines, power supplies, audio amplifiers, detectors, rectifiers, oscillators, power amplifiers. Use of oscilloscope, audio generators, RF generators and other related test equipment. Prerequisites: registration in or credit for 213L; 206-206L.

213L. ELECTRONICS II LABORATORY. 3 hours. Laboratory 6 hours. Prerequisite: registration in or credit for 213.

217. TRANSISTOR ELECTRONICS. 3 hours. Transistor characteristics, amplifiers, oscillators, integrated circuits, servicing of transistor and integrated circuits, developments in transistor and integrated circuits. Prerequisites: registration in or credit for 217L; 213-213L.

217L. TRANSISTOR ELECTRONICS LABORATORY. 3 hours. Laboratory 6 hours. Prerequisite: registration in or credit for 217.

218. ELECTRONIC INSTRUMENTS. 3 hours. Design, construction, and applications of measuring instruments, calibration methods, servicing techniques, and use of advanced measuring instruments. Prerequisites: registration in or credit for 218L; 217-217L.

218L. ELECTRONIC INSTRUMENTS LABORATORY. 3 hours. Laboratory 6 hours. Prerequisite: registration in or credit for 218.

230. TECHNICAL CALCULUS II. 3 hours. Integration techniques, partial derivatives, series; differential equations. Prerequisite: Mathematics 110 or 120. (Same as Mathematics 230.)

311. TELEVISION ELECTRONICS. 3 hours. Design and operation of the complete television system—camera, transmitter, and receiver; operation of circuits, their characteristics and measurement techniques. Prerequisites: registration in or credit for 311L; 312-312L.

311L. TELEVISION ELECTRONICS LABORATORY. 3 hours. Laboratory 6 hours. Prerequisite: registration in or credit for 311.

312. COMMUNICATION ELECTRONICS. 3 hours. Amplitude and frequency modulated transmitters and receivers used in communication equipment, circuits involved, their design, and the systems as a whole. Prerequisites: registration in or credit for 312L; 217-217L.

312L. COMMUNICATIONS ELECTRONICS LABORATORY. 3 hours. Laboratory 6 hours. Prerequisite: registration in or credit for 312.

318. INDUSTRIAL ELECTRONICS. 3 hours. Design of circuits involving solid state vacuum and gas tubes, application of electronic devices to complete systems found in commercial resistance welders, motor speed controllers, induction and dielectric heating, and automatic systems. Prerequisites: registration in or credit for 318L; 217-217L.

318L. INDUSTRIAL ELECTRONICS LABORATORY. 3 hours. Laboratory 6 hours. Prerequisite: registration in or credit for 318.

325. COMPUTER ELECTRONICS. 3 hours. The typical digital computer's operation, circuitry, and its application, individual circuits design, their use in the complete system, and input-output equipment. Prerequisites: registration in or credit for 325L; 217-217L.

325L. COMPUTER ELECTRONICS LABORATORY. 3 hours. Laboratory 6 hours. Prerequisite: registration in or credit for 325.

326. MICROWAVE ELECTRONICS. 3 hours. Principles, application, and measurement of microwaves in the field of communication and industry. Active and passive devices utilized are investigated in depth. Extensive use of the Smith Chart in graphically solving transmission line problems. Prerequisites: registration in or credit for 326L; 312-312L.

326L. MICROWAVE ELECTRONICS LABORATORY. 3 hours. Laboratory 6 hours. Prerequisite: registration in or credit for 326.

409. COMMUNICATION REGULATIONS. 3 hours. Rules and regulations of the Federal Communications Commission in preparation for taking

the First Class Radio Telephone License examination and supplementary endorsement. Prerequisite: 312-312L or consent of the instructor.

411. AUTOMATION CIRCUITS AND SYSTEMS. 3 hours. Automation systems—principles and designs; first and second order servo systems, servo amplifiers, transducers, gyroscopes, the dynamic analysis of response and stability by use of Laplace transforms, Bode plots, and Nyquist plot, and damping problems. Prerequisite: 318-318L.

412. APPLICATION OF THE ANALOG AND DIGITAL COMPUTER IN TECHNOLOGY. 3 hours. Utilization of high speed digital and analog computers in the fields of industrial education and engineering technology, with emphasis upon production design and research. Prerequisite: Mathematics 109 or consent of the instructor.

415. RETRIEVAL AND COMMUNICATION. 3 hours. Methods employed in present day industries to obtain, sort, distribute, and file pertinent information. Utilization of computer processing, storage, and retrieval, common problems of communication between personnel and possible solutions.

515. DESIGN PROBLEMS IN ELECTRICITY. 3 hours. Design of advanced equipment, circuits, and systems through experimental research methods.

***518. ELECTRONIC DESIGN PROBLEMS.** 3 hours. Design of advanced circuits and systems utilizing solid state active devices, integrated circuits, and the most recent components through experimental research methods.

***520. ADVANCED INDUSTRIAL ELECTRONICS.** 3 hours. Active 4 terminal analysis employing Z-parameters, Y-parameters, h-parameters, g-parameters, and S-parameters are utilized in circuit design. Circuits are designed around SCR's, thyristors, triacs, silicon controlled switches, FET's, thyatrons, photo diodes, and photo transistors.

***521. ADVANCED COMMUNICATION ELECTRONICS.** 3 hours. Antenna design, single side band communication systems, multiplexing, ampliphase, A.M. systems, color TV transmitter and receiving systems, equipment design for space communication systems, parametric amplifiers, microwave amplifiers, and quantum electronic devices.

***522. ADVANCED MICROWAVE ELECTRONICS.** 3 hours. Modern radar systems with emphasis upon design of practical equipment, theory of radar measurement, use of the radar range equation, detection methods, MTI techniques, search radar, range tracking, Doppler tracking, antennas, propagation, and system engineering and design.

***523. ADVANCED SEMICONDUCTOR ELECTRONICS.** 3 hours. Circuit design using solid state devices, semiconductor design problems, transistors, both bi-polar and unipolar, bias stability, boot-strapping, cascading and cascading problems, tunnel diodes, and integrated circuits.

***524. ADVANCED COMPUTER ELECTRONICS.** 3 hours. Computer design—logic circuits, memory systems, arithmetic circuits, multivibrators, control systems, analog to digital and digital to analog convertors, software and programming, and the analog computer. Considerable emphasis is placed on systems.

***525. TELEMETERING AND SPACE COMMUNICATION** 3 hours. Space communication equipment and techniques. Parametric amplifiers; maser amplifiers; coherent and synchronous detectors; antennas; space environment; propagation in full space; laser amplifiers, telemetering techniques, and multiplexing principles.

***532. BASIC LASER PRINCIPLES.** 3 hours. Fundamental principles of the laser, equipment design, applications in the fields of communication, computers, measurements, holography, machining, and welding. Gas, liquid, and solid state lasers are covered.

ENGINEERING DRAFTING

106. ENGINEERING DRAWING I. 1 hour. Lettering, sketches, simple geometric construction, working drawings, orthographic projection, dimensioning development, and blueprinting. Prerequisite: registration in or credit for 106L.

106L. ENGINEERING DRAWING I LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 106.

107. ENGINEERING DRAWING II. 1 hour. Sketching machine parts and construction details; use of instruments, drafting conventions, details and assemblies, sections; perspective; blue, black, and white printing; map and topographical drawing. Prerequisites: registration in or credit for 107L; 106-106L.

107L. ENGINEERING DRAWING II LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 107.

201. ENGINEERING DRAWING III: DESCRIPTIVE GEOMETRY. 1 hour. Space relations of points, lines, surfaces, intersections and developed surfaces. Prerequisites: registration in or credit for 201L; 106-106L.

201L. ENGINEERING DRAWING III LABORATORY: DESCRIPTIVE GEOMETRY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 201.

203. ENGINEERING DRAWING IV: DETAIL AND STRUCTURAL DRAWING. 1 hour. Advanced detail and assembly drawing; schematic diagrams; pipe, welding, and structural drawing. Prerequisite: registration in or credit for 203L.

203L. ENGINEERING DRAWING IV LABORATORY: DETAIL AND STRUCTURAL DRAWING. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 203.

223. ENGINEERING DRAWING V: ELECTRONICS DRAFTING AND DESIGN. 1 hour. Drafting techniques used in the electronics industry, components and materials peculiar to this area of engineering drawing, specifications and design requirements, graphic symbols, schematic diagrams, circuit and chassis layout, printed circuits, block diagrams, graphs—rectilinear, logarithmic, polar; and monographs. Prerequisite: registration in or credit for 223L.

223L. ENGINEERING DRAWING V LABORATORY: ELECTRONICS DRAFTING AND DESIGN. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 223.

303. ENGINEERING DRAWING VI: ARCHITECTURAL DRAWING AND HOME PLANNING. 1 hour. Principles and practices of architectural drawing; problems and procedures in home construction; selection of site, materials of construction, insulation, and layout; plans and specifications for a modern home. Prerequisites: registration in or credit for 303L; 106-106L.

303L. ENGINEERING DRAWING VI LABORATORY: ARCHITECTURAL DRAWING AND HOME PLANNING. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 303.

304. ENGINEERING DRAWING VII: INDUSTRIAL ARTS DESIGN. 1 hour. Application of principles of contour surface, and structural design for industrial arts projects in wood and metal. Prerequisite: registration in or credit for 304L.

304L. ENGINEERING DRAWING VII LABORATORY: INDUSTRIAL ARTS DESIGN. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 304.

309. ENGINEERING DRAWING VIII: TECHNICAL ILLUSTRATION. 1 hour. Techniques of pencil, ink, airbrush and various materials utilized in the production of presentation drawings and renderings of products, equipment and machinery, with emphasis toward industry requirements. Prerequisites: registration in or credit for 309L; 106-106L and consent of instructor.

309L. ENGINEERING DRAWING VIII LABORATORY: TECHNICAL ILLUSTRATION. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 309.

320. ENGINEERING DRAWING IX: TOOL DESIGN. 1 hour. Design and construction of jigs and fixtures applicable to industrial production. Prerequisites: registration in or credit for 320L; 107-107L, 202-202L.

320L. ENGINEERING DRAWING IX LABORATORY: TOOL DESIGN. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 320.

***512. LABORATORY EXPERIENCE IN DRAFTING.** 3 hours. Experimental research and advanced laboratory work in industrial education involving new materials of industry, contemporary design, and their application to the industrial education program. The laboratory phase will consist of machine tool manipulation as needed in the study.

GRAPHIC ARTS

110. INTRODUCTION TO GRAPHIC ARTS. 1 hour. Origin and development of the graphic-arts movement; printing nomenclature; theory and practice in hand composition, typography, make-up, lock-up, and the platen press operation; paper cutting, stock figuring. Prerequisite: registration in or credit for 110L.

110L. INTRODUCTION TO GRAPHIC ARTS LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 110.

111. ELEMENTARY PRINTING. 1 hour. Continuation of 110-110L with advanced study in letterpress procedures; theory and practice in other graphic arts areas which include silk screen, linoleum block, intaglio, process camera work, offset plate-making, and offset press work. Prerequisites: registration in or credit for 111L; 110-110L.

111L. ELEMENTARY PRINTING LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 111.

219. LETTERPRESS PRESSWORK I. 1 hour. Elementary presswork, with emphasis on hand-fed and automatic-fed plate presses; problems of presswork; maintenance; safety; methods of the composition and imposition of forms. Prerequisite: registration in or credit for 219L.

219L. LETTERPRESS PRESSWORK I LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 219.

220. LETTERPRESS PRESSWORK II. 1 hour. Advanced presswork; a continuation of 219 with emphasis on the operation of the flat-bed cylinder press. Lecture 1 hour. Prerequisite: registration in or credit for 220L.

220L. LETTERPRESS PRESSWORK II LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 220.

224. OFFSET PRESSWORK I. 1 hour. Elementary presswork. History and principles of lithography; copy preparation; chemistry of platemaking; press operation, with emphasis on single color printing. Prerequisite: registration in or credit for 224L.

224L. OFFSET PRESSWORK I LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 224.

225. OFFSET PRESSWORK II. 1 hour. Advanced presswork. Continuation of 224. Emphasis on multi-color, and color process printing; chemistry of presswork. Prerequisites: registration in or credit for 225L; 224-224L.

225L. OFFSET PRESSWORK II LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 225.

315. ELEMENTARY LINOTYPE OPERATION. 3 hours. Linotype operation, line casting, maintenance, keyboard operation, and readability of compositions. Laboratory 6 hours.

316. ADVANCED LINOTYPE OPERATION. 3 hours. Composition and typesetting problems of the commercial type-setter; maintenance and repair of equipment. Laboratory 6 hours. Prerequisite: 315.

317. BASIC PHOTOENGRAVING. 1 hour. The photoengraving process including camera and darkroom techniques, negative handling, retouching and processes relative to making line and halftone plates. Prerequisite: registration in or credit for 317L.

317L. BASIC PHOTOENGRAVING LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 317.

324. FUNDAMENTALS OF NEWSPAPER PRODUCTION. 3 hours. Newspaper production by letterpress and offset processes, newspaper typography, make-up, design and style. Same as Journalism 324.

***514. LABORATORY EXPERIENCE IN GRAPHIC ARTS.** 3 hours. Experimental research and advanced laboratory work in industrial education involving new materials of industry, contemporary design, and their application to the industrial education program. The laboratory phase will consist of machine tool manipulation as needed in the study.

MANUAL ARTS THERAPY

330.¹ ORIENTATION IN MANUAL ARTS THERAPY. 3 hours. Historical background and basic principles of manual arts therapy; emphasis on developing and understanding philosophy and needs of such a program.

331.¹ OBSERVATION AND IN-SERVICE TRAINING IN MANUAL ARTS THERAPY. 6 hours. Observation of techniques and procedures used by the manual arts therapist; scheduling activities, program planning, budgeting of funds, determining physical needs and shop layouts.

332.¹ CLINICAL PRACTICES IN MANUAL ARTS THERAPY. 6 hours. Planning instruction material and working with patients in the manual arts therapy shops.

METALS

102. GENERAL METALS. 1 hour. Tools, materials, and processes involved in bench metal, forging and welding, machine-tool operation, and

¹These courses comprise the last semester's work and are completed at an affiliated V.A. Hospital.

foundry practice. Prerequisite: registration in or credit for 102L.

102L. GENERAL METALS LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 102.

202. ELEMENTARY MACHINE-SHOP PRACTICE. 1 hour. The lathe, miller, shaper, grinder, sand-molding; gas and electric welding; individual projects. Prerequisites: registration in or credit for 202L; 102-102L.

202L. ELEMENTARY MACHINE-SHOP PRACTICE LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 202.

302. ADVANCED MACHINE-SHOP PRACTICE. 1 hour. Continuation of 202 with special emphasis on tool-making. Prerequisites: registration in or credit for 302L; 202-202L.

302L. ADVANCED MACHINE-SHOP PRACTICE LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 302.

****307. INDUSTRIAL INTERNSHIP I.** 3 hours. Industrial experience including job skills, manufacturing processes, technical information, labor and management relationships, conferences, and examinations.

****319. INDUSTRIAL INTERNSHIP II.** 4 hours. Continuation of 307 with special emphasis on plan layouts, tooling for production, and supervision of personnel.

408. TOOLS AND MATERIALS. 1 hour. Source, manufacture, and cost of shop tools and supplies; writing equipment specifications; repair of tools and equipment.

511. LABORATORY EXPERIENCE IN METALS. 3 hours. Experimental research and advanced laboratory work in industrial education involving new materials of industry, contemporary design, and their application to the industrial education program. The laboratory phase will consist of machine tool manipulation as needed in the study.

POWER MECHANICS

207. ELEMENTARY AUTO MECHANICS. 1 hour. Automotive units and approved methods of repair; manufacturers' service manuals. Prerequisite: registration in or credit for 207L.

207L. ELEMENTARY AUTO MECHANICS LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 207.

208. ADVANCED AUTO MECHANICS. 1 hour. Continuation of 207, including motor rebuilding and tune-up. Prerequisites: registration in or credit for 208L; 207-207L.

208L. ADVANCED AUTO MECHANICS LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 208.

209. MODERN TECHNIQUES OF DIAGNOSING AND SERVICING THE AUTOMOBILE. 1-6 hours. Fundamentals of automatic transmission, power brakes and steering, electric systems, air condition, carburetion, radio, and the use of diagnostic testing equipment.

214. POWER MECHANICS I. 1 hour. Theory and fundamental principles of the internal combustion engine; ignition, carburetion, compression; utilization of modern testing equipment; repair and maintenance of the 2-cycle water- and air-cooled engine. Prerequisite: registration in or credit for 214L.

214L. POWER MECHANICS I LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 214.

215. POWER MECHANICS II. 1 hour. Continuation of 214 with special emphasis on 4-cycle water and air-cooled engines. Prerequisites: registration in or credit for 215L; 214-214L.

215L. POWER MECHANICS II LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 215.

216. FLUID MECHANICS. 1 hour. Theory and fundamental concepts of hydraulic power; its application to transmission, braking, steering actuators, and suspension systems. Prerequisite: registration in or credit for 216L.

216L. FLUID MECHANICS LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 216.

519. LABORATORY EXPERIENCE IN FLUID AND POWER MECHANICS. 3 hours. Experimental research and advanced laboratory work in fluid and power mechanics, involving new materials of industry, contemporary design, and their application to the industrial education program. The laboratory phase will consist of application of hydraulic and power mechanics principles as needed in the study.

WOODS

120. INTRODUCTORY WOODWORK. 1 hour. Processes in hand and machine woodworking; basic concept of cabinet making and millwork; construction. Prerequisite: registration in or credit for 120L.

120L. INTRODUCTORY WOODWORK LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 120.

200. WOODWORKING TECHNOLOGY. 1 hour. Scientific principles related to wood, including the application to practical purposes. Technological developments in the wood industries. Prerequisites: registration in or credit for 200L; 106-106L, 120-120L.

200L. WOODWORKING TECHNOLOGY LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 200.

221. INDUSTRIAL FINISHING. 1 hour. Principles of industrial finishing, characteristics and application of finishing materials. Prerequisites: registration in or credit for 221L; 200-200L.

221L. INDUSTRIAL FINISHING LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 221.

306. INDUSTRIAL CRAFTS. 1 hour. Arts and crafts using copper, clay, aluminum, Keene's cement, cork, leather, reed, rattan, plastics, pewter, etching, electroplating and forming metals. Prerequisite: registration in or credit for 306L.

306L. INDUSTRIAL CRAFTS LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 306.

313. BASIC CABINET MAKING AND MILLWORK. 1 hour. Standards of joinery assembly and production. Use of modern materials, application of traditional and contemporary design. Prerequisites: registration in or credit for 313L; 120-120L; 200-200L; 221-221L.

313L. BASIC CABINET MAKING AND MILLWORK LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 313.

333. ADVANCED INDUSTRIAL WOODWORK. 1 hour. Advanced prob-

lems in industrial type multiproduction. Production planning, cost estimation, shop and factory organization. Prerequisites: registration in or credit for 333L; 120-120L; 200-200L; 221-221L; 313-313L.

333L. ADVANCED INDUSTRIAL WOODWORK LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 333.

400. BUILDING CONSTRUCTION. 1 hour. Fundamentals and methods of light construction. Application of working drawings, contract documents, and specifications. Prerequisites: registration in or credit for 400L; 106-106L; 120-120L; 200-200L; 303-303L; 313-313L; 333-333L.

400L. BUILDING CONSTRUCTION LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 400.

513. LABORATORY EXPERIENCE IN WOODS. 3 hours. Experimental research and advanced laboratory work in industrial education involving new materials of industry, contemporary design, and their application to the industrial education program. The laboratory phase will consist of machine tool manipulation as needed in the study.

516. LABORATORY EXPERIENCE IN CRAFTS. 3 hours. Experimental research and advanced laboratory work in industrial education, involving new materials of industry, contemporary design, and their application to the industrial education program. The laboratory phase will consist of machine tool manipulation as needed in the study.

PROFESSIONAL

222. TECHNICAL WRITING. 3 hours. Fundamentals of technical report writing, time and motion studies, preparation of graphs, charts, equipment and material specifications, and drawings as used in communication of technical information. Prerequisite: English 102.

226. INDUSTRIAL ORIENTATION. 1 hour. A preparatory course covering proper conduct for job interviews, employee-employer relations, unions, organizations within industry, administrative structures, insurance, and company policy.

305. INDUSTRIAL ARTS FOR ELEMENTARY TEACHERS. 1 hour. Materials and handtool processes; organization of a unit of instruction, individual and group projects in common materials. Prerequisite: registration in or credit for 305L.

305L. INDUSTRIAL ARTS FOR ELEMENTARY TEACHERS LABORATORY. 2 hours. Laboratory 5 hours. Prerequisite: registration in or credit for 305.

308. SHOP ORGANIZATION AND MANAGEMENT. 3 hours. Examination and planning of shops, organizations, personnel, control methods, equipment, and supplies.

402. TEACHING AIDS IN INDUSTRIAL EDUCATION. 3 hours. Construction and evaluation of visual aids for instructional purposes in industrial education.

413. QUALITY CONTROL. 3 hours. Methods and procedures employed in industrial quality control, theories of measurement, error, prediction, sampling, tests of significance and models. Prerequisite: Mathematics 103 or consent of instructor.

420. MANUFACTURING PROCESSES. 3 hours. Selection and use of modern machine tools, materials, processing, analysis of cutting forces, tooling inspection and quality control.

421. ELEMENTS OF INDUSTRIAL SUPERVISION. 3 hours. Preparation, training, and problems of the supervisor.

423. EMPLOYER-EMPLOYEE RELATIONS. 3 hours. Wage-and-Hour Law; workmen's compensation; federal and state laws affecting labor; collective bargaining.

***501. DEVELOPMENT OF INDUSTRIAL EDUCATION.** 3 hours. Agencies and movements that have contributed to the development of industrial education; European and American leaders; social and economic effect of industrial education on the schools of America.

***503. OCCUPATIONAL SURVEYS AND CURRICULUM CONSTRUCTION.** 3 hours. Problems, methods, and procedures involved in making a local community survey; formulation of curricula for industrial education programs based upon results of the survey.

506. RESEARCH IN INDUSTRIAL EDUCATION. 3 hours. Theses and dissertations in the field of industrial education. Only students who plan to write a thesis may register for this course.

527. SELECTION AND ORGANIZATION OF SUBJECT MATTER. 3 hours. Principles and procedures for evaluating, selecting, and arranging content of technical courses, including the preparation and use of written instructional materials.

528. CURRICULUM TRENDS IN INDUSTRIAL ARTS EDUCATION. 3 hours. Basic functions of industrial arts in secondary school curricula; a critical analysis of recent and current research related to curricular patterns involving industrial arts.

529. PRACTICUM IN CONTEMPORARY APPROACHES TO TEACHING INDUSTRIAL EDUCATION. 3 hours. New approaches to organization and presentation of content for industrial education curricula; experience in methods and techniques of approaches chosen. Prerequisite: 528.

530. SUPERVISION OF INDUSTRIAL-TECHNICAL EDUCATION. 3 hours. Principles of industrial-technical education supervision, types and changing concepts in organizing for supervising, devising means for measuring outcomes of supervision.

531. INDEPENDENT STUDY IN INDUSTRIAL-TECHNICAL EDUCATION. 1-3 hours. Examination and reporting on special interest problems; comparative study of domestic and foreign industrial and technical programs in industry and schools.

590. SEMINAR IN INDUSTRIAL EDUCATION. 1-3 hours.

591. CURRICULUM DEVELOPMENT IN INDUSTRIAL ARTS FOR THE COMMON SCHOOL. 8 hours. Major contemporary approaches in selection and organization of subject matter for teaching industrial arts in the common schools; intensive study and practicum experience in 1 of the approaches successfully tried in experimental programs.

592. AMERICAN INDUSTRY IN THE ELEMENTARY SCHOOL. 8 hours. Historical development of modern American industry. Use of industrial arts type activities correlated with the normal elementary school curriculum. Occupational information; development and construction of applicable activity type teaching units.

***595. RESEARCH PROBLEMS.** 1-6 hours.

598. THESIS. Maximum, 6 hours.

VOCATIONAL-INDUSTRIAL

126. PRINCIPLES OF VOCATIONAL-INDUSTRIAL EDUCATION. 3 hours. Some psychological concepts of learning; the preparation and use of individual instruction sheets; community and school relationships; content and testing. (Formerly 406.)

210. PROBLEMS IN VOCATIONAL-INDUSTRIAL EDUCATION. 1-6 hours. Selection of special-interest problems; individual or committee work for them.

211. JOB ANALYSIS. 3 hours. Analyzing trades and jobs into learning and doing units as a means of determining teaching content.

212. COOPERATIVE PART-TIME AND EVENING SCHOOL. 3 hours. Organization and administration of the diversified occupation and part-time and evening programs; legal and administrative aspects as they operate under the George-Barden Act and the State Plan for Vocational Education.

314. ORGANIZATION AND ADMINISTRATION OF INDUSTRIAL EDUCATION. 3 hours. Organization and administration of industrial arts and vocational-industrial programs; relationship of federal and state government to local administration. Intended for industrial education teachers and supervisors, and school administrators. (Formerly 403.)

322. METHODS OF TEACHING RELATED TRADE COURSES. 3 hours. Examination and preparation of materials; analysis of learning difficulties; success factors in teaching related work; planning and teaching a unit of study.

401. OCCUPATIONAL ANALYSIS. 2 hours. Analyzing occupations into their specific elements as a means of determining teaching content.

***404. SPECIAL INVESTIGATION IN INDUSTRIAL EDUCATION.** 1-4 hours. The student selects a problem in his major field and through investigation formulates an acceptable solution.

407. PLANNING AND EQUIPPING THE INDUSTRIAL EDUCATION SHOP. 3 hours. Systematic planning and equipping of the industrial arts, day-trade, and evening school shop based on analysis of community and student needs.

425. VOCATIONAL TESTING AND EVALUATION. 3 hours. Techniques in preparing and administering written and performance tests; developing and using criteria for the evaluation of vocational programs.

***507. PHILOSOPHY AND PRACTICE OF VOCATIONAL EDUCATION AND THE PRACTICAL ARTS.** 3 hours. Programs of vocational education and the practical arts, and their place in the community and the school system; organization; personnel; legal and administrative requirements; state plans. Recommended for school administrators and for teachers of agriculture, home economics, distributive education, and industrial subjects.

517. LABORATORY EXPERIENCE IN VOCATIONAL-INDUSTRIAL EDUCATION. 6 hours. Experimental research and advanced laboratory work in industrial education involving a study of new materials of industry, contemporary design, and their application to the industrial education program. The laboratory phase will consist of machine tool manipulation as needed in the study.

MATHEMATICS

RUSSELL WHITTINGTON, JR., *Professor and Department Head*

Associate Professors: Anders, Pine, Ryan; *Assistant Professors:* Boone, Boyd, Chadick, Covington, Easley, Pitt, Rawson, Temple; *Instructors:* Burk, Land, Masson, Olson, Webster.

Undergraduate Requirements

For a major (Science and Technology): 103, 109, 110, 211, 313, and 15 hours of 300-400 level courses—34 semester hours. Also required: Chemistry 103-103L and 104-104B or Physics 251-251L-251R and 252-252L-252R; modern foreign language, 12 semester hours.

For a major (Education): 103, 109, 110, 211, 302, 310, 415, and 9 hours of 300-400 level courses (Statistics 435 and 436 not acceptable)—34 semester hours. Also required: Chemistry 103-103L and 104-104B or Physics 251-251L-251R and 252-252L-252R.

For a minor (Education): 103, 109, 110, 302, 310, and 3 hours selected from 211, 315, 406, 415—20 semester hours.

For a minor (other than Education): 103, 109, 110, and 7 additional hours selected from 211 or any 300-400 level courses—18 semester hours.

Graduate Requirements

1. For the Master of Science

Undergraduate preparation for a major: 30 semester hours in mathematics including 417 or an equivalent course.

Special requirements for a major: minimum of 24 semester hours in mathematics, plus an acceptable thesis; or a minimum of 24 semester hours in mathematics, including 2 research papers, plus 6 semester hours in an allied field or 6 additional semester hours of mathematics; or 18 semester hours of mathematics, including 1 research paper, plus 12 semester hours of physics, including 1 research paper. Statistics 427 and 528 are acceptable as mathematics courses for this degree.

Undergraduate preparation for a minor: 18 semester hours in mathematics.

2. For the Master of Science in Education

Undergraduate preparation for a major: 30 semester hours in mathematics.

Special requirements for a major: minimum of 12 semester hours in mathematics, 6 semester hours of education, 6 additional semester hours, plus an acceptable thesis in mathematics; or 18 semester hours in mathematics including 2 research papers, 6 semester hours in education, plus 6 additional semester hours; or 21 semester hours in mathematics, including 1 research paper, 6 semester hours in education, plus 6 additional semester hours. Statistics 427 and 528 are acceptable as mathematics courses for this degree.

Undergraduate preparation for a minor: 18 semester hours in mathematics.

Courses of Instruction

For Undergraduates Only

103.¹ COLLEGE ALGEBRA. 3 hours. Real number system; factoring; functions and their graphs; linear systems; quadratic functions; sequences;

¹Credit for this course may be awarded on the basis of placement test scores.

proportion and variation; matrices; probability; linear programming. Prerequisite: recommendation for 103 on basis of placement tests, or a grade of C or higher in 105, or consent of department head.

105.1 INTRODUCTION TO GENERAL MATHEMATICS I. 3 hours. Properties of the natural numbers; the arithmetic and algebra of rational numbers; solutions of linear equations and inequalities; solutions and graphs of equations with 2 variables.

106.1 INTRODUCTION TO GENERAL MATHEMATICS II. 3 hours. Extension of the real number system, polynomials, relations, functions, graphs, ratio, proportion, elementary trigonometry, logarithms, compound interest, and elementary concepts of probability. Prerequisite: 105.

109.2 TRIGONOMETRY. 3 hours. Development and use of trigonometric functions; relations between functions; solution of triangles with applications to practical problems; trigonometric formulas and identities; radian measure; graphic representation of trigonometric functions; inverse trigonometric functions, trigonometric equations. Prerequisites: 103 or registration in 103, or 113, or consent of department head.

110. ANALYTIC GEOMETRY AND CALCULUS I. 5 hours. Elementary concepts of analytic geometry, functions, limits and continuity, derivatives and applications, integration and applications of integration. Prerequisites: grade of C or higher in either 103 or 113, and grade of C or higher in 109, or consent of department head.

113.1 ALGEBRA AND QUANTITATIVE TECHNIQUES FOR BUSINESS I. 3 hours. Fundamental operations, linear equations, simultaneous linear equations, quadratic equations, special quantitative techniques.

114.1 ALGEBRA AND QUANTITATIVE TECHNIQUES FOR BUSINESS II. 3 hours. Inequalities, elementary matrix algebra and linear programming, exponents, logarithms, sequences, annuities, special quantitative techniques. Prerequisites: 113 or 103, or consent of department head.

115.1 STRUCTURE OF THE REAL NUMBER SYSTEM I. 3 hours. Basic origin of number systems; change of base; Hindu-Arabic number system; sets and numbers; set operations and their relation to operations with numbers; basic structure of our number system; prime and composite numbers; divisibility properties. Prerequisite: registration as an elementary education major.

116. STRUCTURE OF THE REAL NUMBER SYSTEM II. 3 hours. Basic operations with fractions and decimals; the number line; scientific notation; elementary logic; linear equations and related verbal problems; ratio and percentage; negative numbers and rational numbers; further development of real number system. Prerequisite: 115.

120. TECHNICAL CALCULUS. 3 hours. Differential and integral calculus with emphasis on applications in electronics. This course may not be used for a minor in mathematics. Prerequisites: 103, 109.

205. MATHEMATICS OF STATISTICS. 3 hours. Statistics as a scientific tool; frequency distributions, tabular and graphical representation of data; measures of central tendency; normal curve; correlation; sampling; probability curve fitting; limitations of theory. Prerequisite: 3 hours of mathematics.

¹None of the following combinations of courses may be used to satisfy the mathematics requirement in any curriculum: 103 and 105; 103 and 113; 103 and 115; 105 and 113; 105 and 115; 113 and 115; 114 and 115. Any student who earns credit in 1 of the above combinations and needs 6 hours of mathematics to satisfy a core requirement, must take 3 additional hours of mathematics and add 3 hours to his total degree requirement.

²Credit for this course may be awarded on the basis of placement test scores.

206. SLIDE RULE. 1 hour. Theory and practice in the use of the slide rule. Prerequisite: credit for or registration in 109.

Post Versa-log or K & E log deci-trig slide rule required. No other slide rule may be used without consent of instructor.

211. ANALYTIC GEOMETRY AND CALCULUS II. 5 hours. Definite integrals and applications, conics, transcendental functions, integration, parametric equations, functions in the plane, improper integrals, indeterminate forms. Prerequisite: 110.

217. PLANE SURVEYING. 4 hours. Class work and field work in the measurement of lines, angles, and directions; differential and profile leveling; transit-tape and stadia surveys; measurement of areas; topographic surveying; land surveying; related numerical problems. Lecture 3 hours, laboratory 2 hours. Prerequisite: registration in or credit for 109.

219. BASIC ALGEBRA. 3 hours. Additional properties of the real number system; linear equations and inequalities; elementary number theory; complex numbers; functions. Prerequisite: 116.

220. INFORMAL GEOMETRY. 3 hours. Basic plane and space geometric concepts; congruence; incidence; constructions; measurement; area; volume, proof. Prerequisite: 116.

230. TECHNICAL CALCULUS II. 3 hours. Integration techniques; partial derivatives; series; differential equations. Prerequisite: 110 or 120.

302. FOUNDATIONS OF GEOMETRY. 3 hours. Plane geometry, solid geometry, coordinate geometry, non-Euclidean geometry, nature of proof, deductive reasoning, measurement, construction, areas, and volumes. Prerequisite: 110.

309. LINEAR ALGEBRA. 3 hours. Linear spaces, linear transformations, matrices, and determinants. Prerequisite: 211.

310. MODERN ALGEBRA. 3 hours. Introductory concepts; equivalence and congruence; Boolean algebra; introduction to groups, fields, rings, and ideals. Prerequisite: 110.

313. ELEMENTARY ANALYSIS. 3 hours. Functions in 3-dimensional space, multiple integrals, and infinite series. Prerequisite: 211.

315. THEORY OF PROBABILITY. 3 hours. Introductory concepts; elementary principles of the theory of probability; dependence; expectation; the binomial distribution; other distribution functions; applications. Prerequisite: 211 or consent of instructor. (Formerly 402.)

316. ORDINARY DIFFERENTIAL EQUATIONS. 3 hours. First order equations and first and second order linear equations; power series solutions of general second order equations; systems of equations and introduction to Sturm-Liouville problems. Prerequisite: 313. (Formerly 416.)

495. RESEARCH PROBLEMS IN MATHEMATICS. 1-4 hours. Introduction to research in mathematics. Prerequisite: consent of department head.

For Undergraduates and Graduates

403. COLLEGE GEOMETRY. 3 hours. Logical systems and basic laws of reasoning; special topics of axiomatic geometry; Menelaus' and Ceva's theorems; harmonic elements and cross ratio; inversion theory; introduction to projective geometry. Prerequisite: 12 hours of mathematics, including 110.

406. THEORY OF NUMBERS. 3 hours. Foundations of the number

system; repeating decimals; congruences; Diophantine equations; continued fractions; quadratic residues. Prerequisite: 110.

407. HISTORY OF MATHEMATICS. 3 hours. History of the number system and the development of the subject matter of arithmetic, algebra, and geometry on the elementary and secondary level; the contributions of trigonometry, analytic geometry, and calculus.

409. THEORY OF EQUATIONS. 3 hours. Simultaneous linear equations in 2 and 3 variables; complex numbers; properties of polynomials; elementary theorems on the roots of equations; transformation of equations; cubic and quartic equations; isolation of real roots; numerical equations, determinants; symmetric functions; resultants; use of ruler and compasses in constructions. Prerequisite: registration in or credit for 211.

412. MATRIX ALGEBRA I. 3 hours. Fundamental concepts; properties of determinants, elementary transformations on a matrix; inverse of a non-singular matrix; the adjoint of a square matrix; linear dependence; sets of linear equations; the characteristic equation of a matrix; special types of matrices; bilinear forms; quadratic forms. Prerequisite: 309 or 310.

415. FOUNDATIONS OF MATHEMATICS I. 3 hours. Axiom systems; consistency, independence, and completeness; countability of sets; cardinals of sets. Prerequisite: 310.

417. ADVANCED CALCULUS I. 3 hours. Some of the more advanced phases of limits and continuity; derivatives and differentials; functions of several variables; definite integrals; multiple integrals; line integrals; infinite series. Prerequisite: 313.

419. ELEMENTS OF ADVANCED CALCULUS. 3 hours. Transformations and mappings; multiple integrals; line and surface integrals; infinite series; power series; improper integrals; implicit functions. Prerequisite: 417.

420. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE I. 3 hours. Real and complex numbers; differentiation and integration of a complex variable; mapping of elementary functions; linear fractional transformations; infinite series. Prerequisite: 417 or consent of department head.

426. PARTIAL DIFFERENTIAL EQUATIONS. 3 hours. Second order linear partial differential equations with mixed boundary conditions; introduction to orthogonal systems and their uses in solving partial differential equations. Prerequisite: 316.

432. MATRIX ALGEBRA II. 3 hours. Vector spaces and linear transformation; unitary orthogonal transformations; characteristic equation of a matrix; bilinear and quadratic forms. Prerequisite: 412.

445. NUMERICAL ANALYSIS I. 3 hours. Error analysis; approximation of functions; solutions of simultaneous equations; numerical differentiation and integration; difference equations, and numerical solutions of differential equations. Prerequisite: consent of department head.

451. ALGEBRA FOR TEACHERS, GRADES 7-12. 3 hours. A course on the structure of algebra designed for in-service teachers of mathematics. Prerequisite: enrollment in institute or consent of director.

452. GEOMETRY FOR TEACHERS, GRADES 7-12. 3 hours. A course on the structure of geometry designed for in-service teachers of mathematics. Prerequisite: enrollment in institute or consent of director.

For Graduates Only

500. MODERN MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS. 3 hours. Content varies to meet the specific needs of in-service elemen-

tary school teachers. May not be used to fulfill requirements for the M.S. degree in mathematics.

501. MODERN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS. 3 hours. Content varies to meet the specific needs of secondary school teachers. May not be used to fulfill requirements for the M.S. degree in mathematics.

502. SPECIAL TOPICS IN MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS. 3 hours. Content will vary to meet the specific needs of in-service elementary school teachers. May not be used to fulfill requirements for the M.S. degree in mathematics.

506. SPECIAL TOPICS IN MATHEMATICS FOR HIGH SCHOOL TEACHERS. 3 hours. Content will vary to meet the specific needs of in-service secondary teachers. May not be used to fulfill requirements for the M.S. degree in mathematics.

507.¹ MODERN GEOMETRY FOR SECONDARY TEACHERS. 3 hours. Basic principles of logic, nature of proof, deductive reasoning. Fundamental basis for Euclidean and non-Euclidean geometries. Plane, solid, and coordinate geometry, measurement, construction, area, and volume. Prerequisites: certification or desire for certification to teach mathematics, 12 semester hours of mathematics, and consent of instructor. May not be used to fulfill requirements for the M.S. degree in mathematics.

508. ADVANCED TOPICS IN ELEMENTARY SCHOOL MATHEMATICS. 3 hours. Content will vary to meet the specific needs of in-service elementary school teachers. Prerequisites: 502 and consent of instructor.

510. MODERN ALGEBRA I. 3 hours. Elementary theory of groups, rings, integral domains and fields; polynomials and matrices over a field; determinants. Prerequisite: 309 or 310.

511. MODERN ALGEBRA II. 3 hours. Vector spaces; linear transformations; linear algebras; Boolean algebras. Prerequisite: 510.

512. MODERN GEOMETRY FOR ELEMENTARY TEACHERS. 3 hours. A course in informal geometry designed to help elementary teachers develop an understanding of the basic concepts of geometry. May not be used to fulfill requirements for the M.S. degree in mathematics.

521. THEORY OF FUNCTIONS OF A REAL VARIABLE I. 3 hours. Real number system; theory of point sets; spaces; sequences; functions; infinite series; measure theory; integration. Prerequisite: 417.

522. TOPOLOGY I. 3 hours. Topological spaces, metric spaces, continuous functions, connectedness, and compactness. Prerequisite: 417.

523. FOUNDATIONS OF MATHEMATICS II. 3 hours. Foundations of mathematical logic, calculus of propositions, intuitionism. Prerequisite: 415.

524. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE II. 3 hours. Contour integration; conformal mapping; introduction to normal families. Prerequisite: 420.

525. ANALYSIS OF SEQUENCES. 3 hours. Convergence, divergence and limits of sequences; concepts of limit superior, limit inferior; Cesaro and Holder summability methods for sequences; generating techniques for sequences. Prerequisite: consent of department head.

¹Credit not allowed for both 302 and 507.

531. THEORY OF FUNCTIONS OF A REAL VARIABLE II. 3 hours. Foundations of integration theory; general set functions; product spaces and locally compact spaces. Prerequisite: 521.

533. TOPOLOGY II. 3 hours. Moore-Smith convergence; metrization problems; uniform spaces. Prerequisite: 522.

545. NUMERICAL ANALYSIS II. 3 hours. Numerical solutions of differential equations, curve fitting, finite differences, iteration techniques. Prerequisite: 445.

550. INTRODUCTION TO MODERN ANALYSIS. 3 hours. Axiomatic development of basic concepts of sets, sequences, continuity, differentiation, integration, and certain algebraic systems. Open only to candidates for M.S. in Education degree. Prerequisite: consent of department head.

551. FOUNDATIONS OF ANALYSIS IN THE PLANE. 3 hours. Open and closed sets in the plane; elementary transformations, invariant properties of sets under transformations. Open only to candidates for M.S. in Education degree. Prerequisite: 415 or 302 or 310.

552. FOUNDATIONS OF GEOMETRY II. 3 hours. The axiomatic method; Euclidean geometry; geometry of 4 dimensions; plane hyperbolic geometry; proof. Open only to candidates for M.S. in Education degree. Prerequisite: 302.

553. STRUCTURE OF ALGEBRA. 3 hours. The axiomatic method; theory of algebraic operations; geometric examples of algebra; algebra of complex quantities. Open only to candidates for M.S. in Education degree. Prerequisite: consent of department head.

590. SEMINAR. 1 hour per semester. Two hours allowed toward a degree.

595. RESEARCH PROBLEMS. 0-6 hours. Six hours allowed toward a degree.

598. THESIS. Maximum, 6 hours.

STATISTICS

For Undergraduates and Graduates

427. MATHEMATICAL STATISTICS I. 3 hours. Topics in probability; frequency distributions; expected values; moments; sampling distributions; point estimation. Prerequisite: 315. (Formerly 527.)

435. STATISTICAL METHODS I. 3 hours. Basic experimental statistics; correlation and regression; analysis of variance. Prerequisite: 6 semester hours in mathematics.

436. STATISTICAL METHODS II. 3 hours. Sampling; analysis of variance in various experimental designs; factorial arrangements of treatments; multiple correlation; curvilinear regression. Prerequisite: 435.

NOTE: 435 and 436 do not carry graduate credit for mathematics majors. They do not count on an undergraduate major or minor in mathematics in the College of Education. They may be used as electives in any college.

For Graduates Only

528. MATHEMATICAL STATISTICS II. 3 hours. The normal distribution with more than 1 variable; estimators and their properties; hypothesis testing; regression; experimental design and analysis of variance. Prerequisite: 427.

COMPUTER SCIENCE

JOHN LARRY MORRISON, *Assistant Professor and Director, Computing Center*
WILLIAM E. WALTON, *Assistant Professor; Assistant Director, Computing Center*
Instructor: Bordelon

Undergraduate Requirements

For a minor (not certifiable in Education): 102, 201, 301, 398, 403, and 6 hours selected from 401, 402, Management 350, Mathematics 205, or Statistics 435—20 semester hours.

NOTE: mathematics majors must take 401 as part of the minor.

For Undergraduates Only

101. FORTRAN PROGRAMMING. 1 hour. Utilization of the digital computer by means of Fortran IV. Appropriate problems will be programmed and processed on the computing system.

102. PRINCIPLES OF DIGITAL COMPUTERS. 3 hours. Computers and computing systems, problem analysis and programming of computers utilizing an elementary compiler.

201. PROGRAMMING OF DIGITAL COMPUTERS. 3 hours. Translating languages such as Fortran and Cobol and the utilization of computers in the solution of problems from a wide range of disciplines.

301. STRUCTURE OF COMPUTERS AND MACHINE-ASSEMBLER LANGUAGE PROGRAMMING. 3 hours. Structure and operational characteristics of a computer, machine codes, and symbolic-assembler languages. Prerequisite: 201.

398. COMPUTING LABORATORY. 2 hours. Experience in all phases of the operations of a computing center. Laboratory 6 hours. Prerequisite: consent of instructor.

For Undergraduates and Graduates

401. COMPUTER METHODS. 3 hours. Principles and applications of computers to solutions of problems; use of computer-oriented and problem-oriented languages; techniques of analysis and programming required to write and utilize stored programs. Prerequisite: 201 or consent of instructor.

402. COMPUTER LANGUAGES. 3 hours. Design and use of computer-oriented and problem-oriented languages for digital computers. Prerequisite: 301.

403. ADVANCED DIGITAL COMPUTER PROGRAMMING. 3 hours. Programming techniques utilizing all levels of languages, operating systems and effective utilization of peripheral devices. Prerequisite: 301.

For Graduates Only

500. COMPUTER SCIENCE FOR ELEMENTARY AND SECONDARY TEACHERS. 3 hours. Introduction to computing systems; different types and levels of languages; flow charting; use of the computer as a problem-solving tool at various levels in education; problem-oriented languages such as FORTRAN and PL-1 stressed with emphasis on selection and solution of problems pertinent to the elementary and secondary schools. Designed especially for teachers in elementary and secondary schools and may be used to satisfy requirements for the M.Ed. degree. Prerequisite: consent of instructor.

MICROBIOLOGY

PAUL DONALDSON, *Associate Professor and Department Head*
Professor: R. Bienvenu; Associate Professor: Miller;
Assistant Professor: Allen

Undergraduate Requirements

MICROBIOLOGY (PROFESSIONAL)

For a major (Science and Technology, professional and graduate school preparation): 208-208L, 490-2 hours, 495, and 13 hours of advanced courses—24 semester hours. Also required: Biology 101-101L, 102-102L, 327; Chemistry 103-103L, 104-104A, 211-211L, 212-212L, 301-301L, 302-302B, 404-404L, 405; Mathematics 110, 211, plus an additional 6 hours; Physics 203-203L, 204-204L, foreign language, 12 semester hours.

GENERAL MICROBIOLOGY

For a major (Science and Technology): 208-208L, 490-2 hours, and 18 hours of advanced courses—25 semester hours. Also required: Biology 101-101L, 102-102L, 327; Chemistry 103-103L, 104-104A, 211-211L, 212-212L, 301-301L, 302-302B; Mathematics 103, 109; Physics 203-203L, 204-204L.

For a minor: 208-208L, and 11 hours of advanced courses—16 semester hours.

CLINICAL MICROBIOLOGY

For the B.S. degree (Science and Technology): 25 semester hours of microbiology including 208-208L, 313-313L, 403, 412-412L, 414-414L, 419-419L, 490-2 hours; Biology 101-101L, 102-102L, 318-318L; Chemistry 103-103L, 104-104A, 211-211L, 212-212L, 301-301L, 302-302B, biochemistry, 4 hours; Physics 203-203L, 204-204L; Zoology 122-122L, 317-317L, 421-421L.

MICROBIOLOGY-TECHNOLOGY AND MANAGEMENT

For the B.S. degree (Science and Technology): 23 semester hours of microbiology including 208-208L, 403, 412-412L, 419-419L, and 490-2 hours. Also required: a minor in chemistry consisting of 103-103L, 104-104A, 211-211L, 212-212L, 301-301L, 302-302B, biochemistry, 4 hours; Accounting 205, Biology 101-101L, 102-102L, 327; Computer Science 201; Economics 201, 202; Management 322 and 427 or 430; Marketing 323, and 382 or 410; mathematics, 6 hours excluding 105, 106, 113, 114, 115, 116; Physics 203-203L, 204-204L; and statistics (Business Economics 212 or Mathematics 205).

MEDICAL TECHNOLOGY

Education for medical technology calls for a baccalaureate degree program which includes clinical experience in an associated hospital as the senior year. Following this training, students can take the certification examination of the Board of Registry of Medical Technologists of the American Society of Clinical Pathologists to obtain the professional title, MT(ASCP). The program is outlined in the College of Science and Technology curricula.

PRE-MEDICINE

Students preparing for admittance to medical school can major in microbiology utilizing the General Microbiology curriculum. The electives are to be used to complete the requirements of the medical school(s) to which the student plans to apply.

Graduate Requirements for the Master of Science

Undergraduate preparation for a major: 208-208L; Biology 101-101L, 102-102L (or equivalents); 2 courses in organic chemistry, and/or consent of the department; 12 semester hours or a reading knowledge of a foreign language.

Special requirements for a major: a minimum of 24 semester hours and a thesis. 12 semester hours may be taken in chemistry, physics, biology, and/or mathematics.

Undergraduate preparation for a minor: 1 basic laboratory course in microbiology, or consent of the department.

Graduate Requirements for the Master of Science in the Natural Sciences

This is an interdisciplinary degree involving a major department and at least 1 minor department. All general requirements for the Master's degree as published in the **Graduate School Bulletin** apply to this degree.

A minimum of 33 semester hours including at least 3 hours in research problems, or an equivalent course requiring research procedures, with the results of this major investigative report to be presented at a general departmental seminar. Copies of this report must be filed in the Graduate Dean's office and in the office of the student's major department, as per the Graduate School requirements.

A student will complete a minimum of 15 hours, including research problems, but may not present more than 21 hours in the major department. The remainder of the hours will be distributed in accordance with the student's interests and with his committee's approval, but must be chosen from courses in biological sciences, chemistry, geology, mathematics, microbiology, and physics.

The committee for a student in this degree program will consist of 4 members, with at least 2 members from a department other than the major department.

Courses of Instruction

Each lecture course and related laboratory course is a combination taught as a unit; the 2 courses must be taken concurrently. If 1 is dropped, the other must be dropped at the same time. If either course in such a lecture/laboratory combination is failed, it may be repeated without repeating the other.

For Undergraduates Only

111. SURVEY OF GENERAL MICROBIOLOGY. 3 hours. Microorganisms as fundamental biological entities; microscopic life and human environment; solving modern problems in microbiology.

112. SURVEY OF PATHOGENIC MICROBIOLOGY. 3 hours. Disease-producing micro-organisms, their distribution, menace and control; immune responses of man in resistance, allergy and tissue transplantation.

206. INTRODUCTORY MICROBIOLOGY. 2 hours. Bacteria, viruses and other single-celled microorganisms; structure, growth, and relationships to man, animals, and plants. For students not planning to take other courses in microbiology. Prerequisites: registration in or credit for 206L; 1 semester of biology; 2 semesters of chemistry.

206L. INTRODUCTORY MICROBIOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 206.

208. GENERAL MICROBIOLOGY. 3 hours. Morphology and physiology of bacteria and other microorganisms; phases of the field of microbiology which precede the study of sanitation, disease, fermentation, genetics and industrial applications. Prerequisites: registration in or credit for 208L; Chemistry 103-103L, 104-104A or consent of instructor.

208L. GENERAL MICROBIOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 208.

313. PARASITOLOGY. 2 hours. Nature of parasitism, its effects on the parasite and host, and the evolution of the parasitic habit; structure, classification, life histories, and pathology of the parasitic worms and protozoa. Prerequisites: registration in or credit for 313L; Biology 102-102L.

313L. PARASITOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 313.

490. UNDERGRADUATE SEMINAR. 1 hour per semester; maximum credit towards degree, 2 hours. Oral reports of current literature in microbiology.

495. PROBLEMS IN MICROBIOLOGY. 1-4 hours. Individual research on some microbiological problems not ordinarily included within the scope of regularly scheduled courses; weekly conferences with the instructor, in addition to the research; procedures, results and conclusions in the form of a research paper. Prerequisites: 208-208L; consent of instructor.

For Undergraduates and Graduates

330. INDUSTRIAL MICROBIOLOGY. 2 hours. Role of microorganisms in industrial operations, with particular emphasis on antibiotics and fermentations. Prerequisites: registration in or credit for 330L; 208-208L; 2 semester of organic chemistry.

330L. INDUSTRIAL MICROBIOLOGY LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 330.

403. MICROBIAL PHYSIOLOGY I. 3 hours. Energy yielding metabolism of the bacteria and the biosynthesis of small molecules, e.g., amino-acids, purines and pyrimidines, and fatty acids. Prerequisites: 208-208L; 2 semesters of organic chemistry.

412. PATHOGENIC MICROBIOLOGY. 2 hours. Microorganisms that cause disease states in man and those animal pathogens that may be transmitted to man; emphasis on current techniques used to isolate and identify these microorganisms as well as methods of eradication and control; immunological and serological techniques, as applicable to diagnostic bacteriology. Prerequisites: registration in or credit for 412L; 208-208L.

412L. PATHOGENIC MICROBIOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 412.

413. MYCOLOGY. 2 hours. Morphology, classification, and life cycles of fungi; special emphasis on fungi imperfecti related to plant and animal diseases; techniques used in cultivation of fungi. Prerequisites: registration in or credit for 413L; Biology 102-102L; junior standing; genetics recommended.

413L. MYCOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 413.

414. MEDICAL MYCOLOGY. 1 hour. Fungi infecting man; emphasis on techniques of isolation, identification, and methods of therapy and control;

disease syndromes of important fungal infections. Prerequisites: registration in or credit for 414L; microbiology 4 hours, Biology 102-102L or consent of instructor.

414L. MEDICAL MYCOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 414.

417. LABORATORY INSTRUMENTATION. 1 hour. Theory and application of instrumentation relative to study of biological products and preparations. Prerequisites: registration in or credit for 417L; senior standing and/or consent of department head.

417L. LABORATORY INSTRUMENTATION LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 417.

419. IMMUNOLOGY AND SEROLOGY. 2 hours. Theories of infection and immunity; serological techniques employed in studying the immune state. Prerequisites: registration in or credit for 419L; 208-208L; 1 semester of organic chemistry.

419L. IMMUNOLOGY AND SEROLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 419.

421. APPLIED MICROBIOLOGY. 2 hours. Microbiological aspects of milk and other dairy products, soils, water and domestic wastes. Prerequisites: registration in or credit for 421L; 206-206L or 208-208L.

421L. APPLIED MICROBIOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 421.

430. MICROBIOLOGY OF FOODS. 2 hours. Role of microorganisms in food industries. Prerequisites: registration in or credit for 430L; 206-206L or 208-208L.

430L. MICROBIOLOGY OF FOODS LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 430.

For Graduates Only

500. PRINCIPLES AND APPLICATIONS OF MICROBIOLOGY. 2 hours. Morphology, physiology, and distribution of bacteria and other microorganisms, with special reference to their economic importance and relation to everyday life; laboratory work showing morphological and physiological characteristics of bacteria; techniques of culturing bacteria with emphasis on procedures available to secondary school teachers. Open only to teachers with experience. Prerequisites: registration in or credit for 500L and consent of department head.

500L. PRINCIPLES AND APPLICATIONS OF MICROBIOLOGY LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 500.

503. MICROBIAL PHYSIOLOGY II. 3 hours. Biosynthesis and regulation of macromolecules, with emphasis on the synthesis of bacterial cell wall, capsule, DNA, protein, RNA, ribosomes and other cellular components; dissimilation of various large molecules by the bacteria. Prerequisite: 403 or its equivalent or consent of instructor.

504. TECHNIQUES IN MICROBIAL PHYSIOLOGY. 3 hours. A 6-hour laboratory for the study of metabolic pathways with cultures isolated either by the enrichment techniques or mutagens; preparation of cell-free extracts and study of some aspect of cell metabolism which is to be selected by the student. Prerequisites: 208-208L; 403; 503, or their equivalents, or consent of instructor.

512. DYNAMICS OF INFECTIOUS DISEASES. 3 hours. Host-parasite relationships emphasizing factors of innate and acquired resistance; physiological and cellular responses to infection discussed and accompanied by lecture demonstrations of the invasive and toxigenic nature of representative microorganisms. Prerequisites: 412-412L, 419-419L, and 1 semester of biochemistry.

519. IMMUNOCHEMISTRY. 3 hours. Chemical basis of immunological phenomena. Prerequisites: 419-419L.

520. TECHNIQUES IN IMMUNOCHEMISTRY. 2 hours. Immunochemical approaches to problems in microbiology. Laboratory 4 hours. Prerequisites: registration in or credit for 519; 419-419L.

529. VIROLOGY. 3 hours. Bacterial, plant and animal viruses. Prerequisites: microbiology 4 hours; organic chemistry 4 hours.

530. ELECTRON MICROSCOPY FOR BIOLOGICAL SPECIMENS. 1 hour. Theory and operation of the electron microscope; methods of preparation of biological specimens. Prerequisites: registration in or credit for 530L; 1 year of physics and consent of instructor.

530L. ELECTRON MICROSCOPY FOR BIOLOGICAL SPECIMENS LABORATORY. 2 hours. Laboratory 4 hours. Prerequisite: registration in or credit for 530.

555. MICROBIAL GENETICS. 3 hours. Genetics of molds, viruses, and bacteria with special emphasis on the molecular basis of heredity. Prerequisites: microbiology 4 hours; Biology 327; Chemistry 404-404L, or consent of instructor.

590. SEMINAR. 1 hour per semester; maximum credit towards degree 2 hours. Reports of current research projects by graduate students and staff; recent developments and discoveries of microbiology. Required of all regularly enrolled graduate students majoring in microbiology.

595. RESEARCH PROBLEMS. 1-6 hours per semester; 6 hours allowed towards degree.

598. THESIS. Maximum, 6 hours.

PHYSICS

ROBERT P. ROGER, *Assistant Professor and Acting Department Head*
Associate Professor: Boyd; Assistant Professors: Browder, Lee.

Undergraduate Requirements

For a major—Honors (Science and Technology): 101-101L, 102-102L, 251-251L-251R, 252-252L-252R, 329, 330, 371, 382, 410, 451, 462, 483, 484—45 semester hours. Also required: Chemistry 103-103L, 104-104B; Mathematics 109, 110, 211, 313, 316; modern foreign language, 12 hours.

For a major—Applied (Science and Technology): 101-101L, 102-102L, 251-251L-251R, 252-252L-252R, 329, 330, 371, 382, 409, 410—34 semester hours. Also required: Chemistry 103-103L, 104-104B; Mathematics 109, 110, 211, 313, 316; technical electives, 31 hours.

For a major (Education): 101-101L, 102-102L, 251-251L-251R, 252-252L-252R, 409, 410—22 semester hours. Also required: Biology 101-101L, 102-102L; Chemistry 103-103L, 104-104B; Mathematics 109, 110, 211, 313.

For a minor: at least 19 semester hours including 251-251L-251R, 252-252L-252R. (Students in the College of Education who wish to minor in physics rather than science must also take 6 hours of biology and 6 hours of chemistry.)

For a major in science (Education): students in the College of Education are permitted to major in science by earning a minimum of 44 semester hours as follows: Biology 101-101L, 102-102L, 124, 125 and 4 additional hours of biological sciences; Chemistry 103-103L, 104-104B and 4 hours of chemistry electives chosen from courses numbered 200 or above; Geography 201, 307; Geology 103-103L, 104-104L; Physics 203-203L, 204-204L, 309.

For a minor in science (Education): students in the College of Education who are not majoring in 1 of the sciences are permitted to minor in science by earning a total of 24 semester hours as follows:

To be certified to teach chemistry and general science: 12 hours in chemistry, 6 hours in biology, and 6 hours in physics. Chemistry 111 and Physics 111 may not be used.

To be certified to teach physics and general science: 12 hours in physics, 6 hours in biology, and 6 hours in chemistry. Chemistry 111 and Physics 111 may not be used.

Graduate Requirements for the Master of Science

Undergraduate preparation for a major: a bachelor's degree in physics, including intermediate courses in mechanics, electricity and magnetism, and atomic and nuclear physics; 12 semester hours in French, German, or Russian, or a demonstrated reading knowledge of the language. Students with an undergraduate degree in some other science or engineering will be admitted with conditional status subject to either the satisfactory completion of prescribed undergraduate physics courses, or demonstrated proficiency in these areas by examination.

Special requirements for a major: Physics 598, plus 12 semester hours of 500-level courses. Six of these hours must be chosen from Physics 521, 531, 541, and 551. Graduate students are required to enroll for and participate in seminar every semester.

Undergraduate preparation for a minor: 19 semester hours, including 251-251L-251R, 252-252L-252R or equivalent, but excluding 309.

For the Master of Science in the Natural Sciences

Undergraduate preparation for major: 15 semester hours, including 1 year of general physics.

Special requirements: graduate students in this degree program are required to enroll and participate in seminar every semester.

For the Master of Science in Education

Undergraduate preparation for a major: 15 semester hours, including 251-251L-251R, 252-252L-252R or their equivalents.

Undergraduate preparation for a minor: 12 semester hours, including 251-251L-251R, 252-252L-252R or their equivalents

Seminar participation: all graduate students are required to participate in departmental seminars.

Courses marked with an asterisk (*) are those courses in which formal reports in lieu of a thesis may be submitted.

Courses of Instruction

Each lecture course and related laboratory course is a combination taught as a unit; the 2 courses must be taken concurrently. If 1 is dropped, the other must be dropped at the same time. If either course in such a lecture/laboratory combination is failed, it may be repeated without repeating the other.

For Undergraduates Only

101. ELECTRONICS. 2 hours. Basic electronics for scientists; d.c. and a.c. circuits, instrumentation. Prerequisite: registration in or credit for 101L.

101L. ELECTRONICS LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 101.

102. GEOMETRICAL OPTICS. 2 hours. Thin lens and thick lens optics; optical instruments. Prerequisite: registration in or credit for 102L.

102L. GEOMETRICAL OPTICS LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 102.

109. INTRODUCTORY PHYSICS I. 2 hours. Development of physical principles by experimentation; emphasis on matter and energy, how they interact, and on evidence for an atomic model. Designed to meet needs of students preparing for teaching careers. Prerequisite: registration in or credit for 109L.

109L. INTRODUCTORY PHYSICS I LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 109.

110. INTRODUCTORY PHYSICS II. 2 hours. Continuation of 109. Prerequisite: registration in or credit for 110L.

110L. INTRODUCTORY PHYSICS II LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 110.

111.¹ BASIC CONCEPTS OF PHYSICS. 3 hours. A descriptive survey relating the historical development of man's discovery of the physical laws governing the universe to his use of this knowledge then, now, and in the future.

203. GENERAL PHYSICS. 3 hours. Fundamental laws of mechanics, heat and sound. Prerequisites: registration in or credit for 203L; Mathematics 109. (Formerly 103.)

203L. GENERAL PHYSICS LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite: registration in or credit for 203.

204. GENERAL PHYSICS. 3 hours. Fundamental laws of electricity, magnetism, and optics; introductory atomic and nuclear physics. Prerequisites: registration in or credit for 204L; 203-203L.

¹This course is not acceptable as credit for either a major or a minor in physics, and cannot be used to fulfill certification requirements for teaching physics or general science.

204L. GENERAL PHYSICS LABORATORY. 1 hour. Laboratory 2 hours. Prerequisite; registration in or credit for 204.

251. GENERAL ANALYTICAL PHYSICS. 3 hours. Fundamental laws of mechanics, heat, thermodynamics, and wave motion using the concepts of differentiation and integration. Prerequisites: registration in or credit for 251L-251R; Mathematics 110; recommended corequisite Mathematics 211. (Formerly 201.)

251L. GENERAL ANALYTICAL PHYSICS LABORATORY. 1 hour. Laboratory 3 hours. Prerequisites: registration in or credit for 251-251R.

251R. GENERAL ANALYTICAL PHYSICS RECITATION. 1 hour. Prerequisites: registration in or credit for 251-251L.

252. GENERAL ANALYTICAL PHYSICS. 3 hours. Continuation of 251. Electricity, magnetism, optics, atomic and nuclear physics. Prerequisites: registration in or credit for 252L-252R; 251-251L-251R. (Formerly 202.)

252L. GENERAL ANALYTICAL PHYSICS LABORATORY. 1 hour. Laboratory 3 hours. Prerequisite: registration in or credit for 252-252R.

252R. GENERAL ANALYTICAL PHYSICS RECITATION. 1 hour. Prerequisites: registration in or credit for 252-252L.

309. ASTRONOMY. 3 hours. Celestial mechanics; universal gravitation; Kepler's Law; the solar system; measurement of time; latitude and longitude determinations; equation of time; the stars. Prerequisite: 1 year of general physics.

329. ADVANCED LABORATORY I. 3 hours. Advanced laboratory work covering mechanics, electrical measurements, heat, physical optics, atomic physics, nuclear physics. Laboratory 6 hours. Prerequisites: 252-252L-252R; Mathematics 211.

330. ADVANCED LABORATORY II. 3 hours. Continuation of 329, but may be taken independently. Laboratory 6 hours.

371. THERMODYNAMICS. 3 hours. Laws of thermodynamics, kinetic theory of gases, transport properties, elements of statistical mechanics. Prerequisites: 252-252L-252R; Mathematics 211.

382. PHYSICAL OPTICS. 3 hours. Interference, diffraction, polarization, crystal optics. Prerequisites: 252-252L-252R; Mathematics 211.

490. UNDERGRADUATE SEMINAR. 1 hour. May be repeated any number of times, but not more than 2 hours may count toward the baccalaureate degree.

492. INDIVIDUAL STUDY. 2 hours. Study in experimental or theoretical physics under supervision of a faculty member. This course is open to juniors and seniors, and may be repeated any number of times, but not more than 4 hours may be applied toward graduation. Prerequisites: consent of instructor and department head.

495. RESEARCH PROBLEMS. 1-4 hours. Individual research on problems not ordinarily included within the scope of regularly scheduled courses. Prerequisite: consent of department head.

498. SENIOR THESIS. 2 hours. Investigation of a problem in experimental or theoretical physics under supervision of a faculty member; results presented in formal report at scientific meeting or seminar. Course may be repeated any number of times. Prerequisites: senior standing, superior work as undergraduate physics major, and consent of physics faculty.

For Undergraduates and Graduates

409.¹ INTERMEDIATE PHYSICS. 3 hours. Topics from mechanics, elec-

¹This course may be counted for graduate credit only toward a Master of Science in Education degree.

tromagnetism, physical optics, thermodynamics, radiation. Designed to meet needs of prospective teachers of science in junior and senior high schools. Prerequisites: 252-252L-252R; Mathematics 211 or their equivalents.

410.¹ MODERN PHYSICS. 3 hours. An introductory, descriptive course in modern physics, covering topics in atomic, nuclear, solid state, plasma, and elementary particle physics. Prerequisites: 252-252L-252R; Mathematics 313.

451. MODERN PHYSICS. 3 hours. Dynamics of a particle in 1, 2, and 3 dimensions; damped oscillator with arbitrary forcing; 2-body problem; many-body problem; rigid body dynamics; small oscillations. Prerequisites: 252-252L-252R; corequisite: Mathematics 316.

462. ELECTROMAGNETISM. 4 hours. Electrostatics in vacuo; energy in the electric field; magnetostatics; electric current; electric and magnetic fields in material media; Maxwell's equations; field of an oscillating dipole. Prerequisites: 252-252L-252R; Mathematics 316.

471. METHODS OF THEORETICAL PHYSICS. 3 hours. Introduction to topics of current interest in physics, and to mathematical techniques used. Prerequisite: consent of department head.

472. METHODS OF THEORETICAL PHYSICS. 3 hours. Continuation of 471, but may be taken independently. Prerequisite: consent of department head.

473. METHODS OF THEORETICAL PHYSICS. 3 hours. Integral transforms, integral equations, and variational techniques; solution of problems in electromagnetic wave propagation; neutron transport theory; quantum mechanical scattering. Prerequisite: consent of department head.

483. INTRODUCTORY QUANTUM MECHANICS. 3 hours. The free particle, square-well potential, 1-electron atom, time-independent perturbation theory, interaction of matter and radiation. Prerequisites: 451, 462; Mathematics 316. (Formerly 481.)

484. ADVANCED TOPICS IN MODERN PHYSICS. 3 hours. Quantum statistics, quantum theory of solids, X-rays, nuclear physics, particle physics. Prerequisite: 483. (Formerly 482.)

For Graduates Only

501.² PHYSICS FOR ELEMENTARY TEACHERS. 3 hours. Development of physical principles from laboratory experiments, and of evidence for an atomic model of matter. Designed for teachers in grades 1 to 8. Lecture-laboratory 6 hours. Prerequisite: consent of department head.

502.² PHYSICS FOR ELEMENTARY TEACHERS. 3 hours. Continuation of 501. Interaction of matter and energy; physical nature of particles and waves; energy conversion. Lecture-laboratory 6 hours. Prerequisite: consent of department head.

503.² CONTEMPORARY PHYSICS. 3 hours. Mechanics, heat, wave motion. Designed primarily for junior and senior high school teachers of science. Lecture-laboratory 6 hours. Prerequisite: consent of department head.

504.² CONTEMPORARY PHYSICS. 3 hours. Continuation of 503. Electricity, magnetism, optics, atomic and nuclear physics. Lecture-laboratory 6 hours. Prerequisite: consent of department head.

511. METHODS OF THEORETICAL PHYSICS. 3 hours.

¹This course may be counted for graduate credit only toward a Master of Science in Education degree.

²This course may not be used to fulfill requirements for the Master of Science degree.

512. METHODS OF THEORETICAL PHYSICS. 3 hours. Continuation of 511.

518. EXPERIMENTAL ATOMIC PHYSICS. 2 hours. Advanced experiments in gaseous electronics, x-ray and visible spectroscopy, measuring fundamental constants. Laboratory 4 hours.

519. EXPERIMENTAL NUCLEAR PHYSICS. 2 hours. Experiments in scattering, radioactive decay and analysis, neutron activation, alpha-beta-gamma spectroscopy. Laboratory 4 hours.

521. CLASSICAL MECHANICS I. 3 hours. Lagrange's equations, variational techniques, dynamics of rigid bodies, small oscillations, relativistic mechanics.

522. CLASSICAL MECHANICS II. 3 hours. Hamilton's equation, contact transformations, Hamilton-Jacobi theory, mechanics of deformable bodies.

531. ELECTROMAGNETIC THEORY I. 3 hours. Boundary-value problems in electrostatics, multipoles, magnetostatics, time-varying fields, Maxwell's equations, and electromagnetic waves.

***532. ELECTROMAGNETIC THEORY II.** 3 hours. Radiating systems, relativistic-particle dynamics, radiation by moving charges, multipole fields, radiation damping, scattering and absorption.

541. QUANTUM MECHANICS I. 3 hours. Matter waves, the Schrodinger equation, operators, discrete eigenvalues, continuous eigenvalues, stationary perturbation theory.

***542. QUANTUM MECHANICS II.** 3 hours. Time-dependent perturbation theory, quantum statistics, identical particles and spin, relativistic theory.

551. STATISTICAL MECHANICS. 3 hours. Elementary probability and statistics, kinetic theory of gases, ensemble theory, applications.

552. MANY-BODY PROBLEMS. 3 hours. Method of second quantization, Green's function, Feynmann diagrams; application to electron gas, nuclear matter, superfluidity and super-conductivity.

561. RELATIVITY. 3 hours. General tensor analysis, special relativistic mechanics, general theory of relativity, law of gravitation.

565. IONIZED GASES AND PLASMAS. 3 hours. Ionization, recombination, electrical breakdown, basic plasma phenomena, plasma kinetic theory, plasma oscillations, plasma diagnostic techniques.

571. NUCLEAR PHYSICS. 3 hours. Systematics of the nucleus, energy levels, beta decay, nuclear structure, high energy physics.

575. SOLID STATE PHYSICS. 3 hours. Crystal lattices: theory and applications, light scattering in crystals, transport phenomena, ferromagnetism, superconductivity.

585. SPECIAL TOPICS. 1-3 hours. Subject matter will vary according to the interests of the faculty.

590. SEMINAR. 1 hour per semester. Maximum credit towards degree 2 hours. Reports of current research projects by graduate students and staff; recent developments and discoveries of physics. Required of all regularly enrolled graduate students majoring in physics.

***595. RESEARCH PROBLEMS IN PHYSICS.** 1-6 hours. Introduction to research and physics literature; investigation of an elementary research problem; laboratory and conferences as required. The results of the investigation will be presented both in formal written report and orally, either in a departmental seminar or at a professional meeting. Prerequisite: consent of department head.

598. THESIS. Maximum, 6 hours.

THE GRADUATE SCHOOL



GRADUATE SCHOOL

LEO T. ALLBRITTEN, *Dean*

PURPOSE. Northwestern State University was authorized in 1954 to offer graduate work leading to a master's degree for professional school personnel. In 1958 the graduate offerings were broadened to provide opportunities for students to earn master's degrees in the liberal arts and sciences without professional-education requirements. In December of 1966, the State Board of Education authorized the University to offer programs leading to the Specialist in Education degree, and in December, 1967, the Board authorized the degrees of Doctor of Education and Doctor of Philosophy in Education. The Graduate School seeks to introduce students to methods of scholarly research, to contribute to increased competency in teaching and school administration, to provide students with a deeper understanding of human knowledge, and to spark the initiative for further independent study and research.

ADMINISTRATION. The Dean of the Graduate School and the Graduate Council supervise graduate study at Northwestern State University. All correspondence should be addressed to the office of the Dean.

DEGREES. The Master of Arts is granted in art, English, geography, history, social sciences (composite program), and speech.

The Master of Arts in Education is awarded in English, social sciences, and speech.

The Master of Arts in Rehabilitation Counseling is an inter-disciplinary degree.

The Master of Arts in Special Education is awarded in speech pathology.

The Master of Business Administration may be earned through the departments of the College of Business.

The Master of Education is granted in educational media, elementary school administration, elementary teaching, guidance—elementary and secondary, health and physical education, reading specialist—elementary and secondary, secondary school administration, secondary teaching, special education, and student personnel services.

The Master of Music Education and the Master of Music are awarded in the Department of Music.

The Master of Science is awarded in the following curricula: botany, chemistry, geology, electronic engineering technology, mathematics, microbiology, natural sciences, physics, psychology, and zoology.

The Master of Science in Education is granted in biology, business, chemistry, distributive education, early childhood education, home economics, industrial arts education, mathematics, outdoor education, and physics.

The Specialist in Education degree is awarded in elementary and secondary school counseling and guidance, elementary school principalship, elementary teaching, health and physical education, reading, secondary school principalship, and secondary teaching.

The Doctor of Education degree is awarded in elementary education, health and physical education, and secondary education.

The Doctor of Philosophy in Education degree is granted in health and physical education.

ADMISSION TO GRADUATE STUDY

Graduate students must assume the responsibility for becoming fully acquainted with regulations and requirements of the Graduate School.

Anyone who wishes to enroll in the Graduate School must file an application with the Dean of the Graduate School at least 30 days in advance of his

registration. Prior to, or at the time of, the submission of his application, the student must have 2 complete transcripts of his college record sent to the Dean of the Graduate School; in the event that a student has attended more than 1 college, **transcripts must be sent from each college attended.**

All applicants except those who desire to work toward the Master of Business Administration degree must submit scores on the Aptitude Test and the appropriate Advanced Test of the Graduate Record Examinations. Students seeking admission to the Master of Business Administration program are required to submit scores on the Admission Test for Graduate Study in Business. These examinations are scheduled at Northwestern State University and various other centers throughout the United States on regularly established dates. Applications and information about test dates may be obtained from the Educational Testing Service, Princeton, New Jersey, or from the Head of the Department of Testing at Northwestern State University.

The student must understand that admission to graduate study does not imply admission to candidacy for a graduate degree.

To be accepted as a **regular** graduate student, an applicant must hold a bachelor's degree from a college approved by 1 or more of the leading accrediting agencies, and he must have earned at least 2.5 quality points per semester hour **pursued** as an undergraduate. (NOTE: even though accepted as a **regular** graduate student, the applicant may be required to take additional undergraduate courses if he lacks any of the undergraduate prerequisites to his program of graduate studies.) An accepted student whose undergraduate record shows an average of less than 2.5 quality points per semester hour of credit pursued will be classified as a **conditional student**. Conditional status will be changed to regular status when a student earns a minimum of 12 semester hours of graduate credit at Northwestern State University provided that he has a "B" average on all graduate work pursued, including no grade lower than "C" and not more than 1 course with a grade of "C." **If at the time a student completes 12 semester hours of graduate credit he is not eligible for regular status, he may not later be admitted to candidacy for a degree.**

A graduating senior who has a "B" average on all work pursued and who lacks no more than 7 semester hours (4 in a summer session) for the completion of his baccalaureate degree may register for a maximum of 6 semester hours (3 in a summer session) of graduate credit in courses numbered below 500, provided—

- a. His total load during the semester shall not exceed 13 hours (7 in a summer session);
- b. He shall have obtained prior approval from his undergraduate dean, from the Dean of the Graduate School, and from the head of each academic department involved;
- c. He shall receive no graduate credit for any of the courses taken in the event that he fails to receive his bachelor's degree at the close of the semester (or summer session).

ELIGIBILITY TO REMAIN IN THE GRADUATE SCHOOL

If a graduate student's grade-point average falls below "B" (3.0), the Graduate Council may deny him the privilege of registering for further graduate work in the University.

THE MASTER'S DEGREE

When a student is admitted to graduate study for the master's degree, the head of the department in which the student plans to major will appoint an adviser who will assist the student in preparing a tentative program of studies. Upon the recommendation of the adviser, the Dean of the Graduate School will appoint an advisory committee composed of the student's adviser

and 2 faculty members; members of the student's committee will represent the principal fields of study to be included in the degree program. A degree plan must be prepared by a student and his committee, meeting together, during the student's first session of full-time enrollment, or prior to his completion of 9 semester hours of credit in part-time enrollment; this plan requires the approval of the Dean of the Graduate School.

To be eligible to receive the degree of Master of Arts in Education, Master of Education, Master of Music Education, or Master of Science in Education from Northwestern State University, the student must hold a valid teacher's certificate (except for programs in student personnel services).

The minimum credit requirement for the master's degree is 30 semester hours of graduate work, not more than 6 of which may be allowed for the thesis course and the completion of a thesis. If a student does not write a thesis, he must complete at least 6 hours of courses which require special research procedures and formal, written research reports unless he is pursuing the Master of Arts in Education, the Master of Business Administration, the Master of Education, the Master of Science in Education, or the Master of Science in Electronics Engineering Technology. For these degrees, the student, with the permission of his committee, may elect to complete a minimum of 33 semester hours of graduate credit including at least 3 hours in a course which requires special research procedures and a formal written research report. At least one-half of the courses taken, including one-half of those in the major field, must be courses open only to graduate students.

The graduate program must include a major area of concentration of not less than 18 semester hours, including a thesis. Programs leading to the Master of Arts in Education, Master of Education, Master of Music Education, or Master of Science in Education must include at least 6 semester hours in professional education and 12 semester hours outside the field of professional education. For secondary teachers the 12 hours must be in a single field; for elementary teachers this credit may be distributed among several fields.

An average of not less than "B" on all graduate work pursued, with no grade lower than "C" and not more than 6 hours of credit with a grade of "C," shall be presented to fulfill the course requirements for the degree.

The student must pass a comprehensive final examination—oral or written, or both—which will include a defense of the thesis, if a thesis is written.

Two copies of the thesis and 2 copies of an abstract not exceeding 600 words must be filed with the Dean of the Graduate School. If the student does not write a thesis, copies of his major investigative reports must be filed in the office of the head of the student's major department.

ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE. To be eligible for admission to candidacy for the master's degree, a student must satisfy the following requirements:

- a. He must have achieved regular status.
- b. He must have had a degree plan approved.
- c. He must have completed a minimum of 12 semester hours of graduate work at Northwestern State University.
- d. He must have earned a "B" average on all graduate work pursued.

The final decision for admission to candidacy is by vote of the Graduate Council, upon the recommendation of the student's committee and with the approval of the Dean of the Graduate School.

After becoming eligible for admission to candidacy, a student must earn at least 6 semester hours of graduate credit or complete a thesis at Northwestern State University.

COURSE LOAD. During a regular semester, a full-time student takes a course load of 9 to 16 semester hours; during a summer session, a full load

is 4 to 9 semester hours. The maximum course load of a student may be reduced at the discretion of his major professor. A graduate assistant is not permitted to take a full course load. A student who is in full-time employment may pursue no more than 6 semester hours for graduate credit during any 1 semester or summer session. Except in the case of an unusually able student, a course load of 6 semester hours is the maximum for which a graduate student may register in a summer session if he is writing a research paper in lieu of a thesis; also, a student will normally be expected to devote more time than the 9 weeks of a summer session to the preparation of a research paper in lieu of a thesis.

TIME LIMIT. All work applied toward the degree must have been earned within the 6 years immediately preceding the completion of the graduate program.

RESIDENCE REQUIREMENTS. To satisfy the residence requirements a student shall be enrolled for a minimum of 18 weeks of **full-time graduate study on the Natchitoches campus** and shall earn a minimum of 12 semester hours of graduate credit while enrolled as a full-time graduate student. The remainder of the residence requirements may be met by taking a minimum of 12 additional semester hours of credit in residence.

TRANSFER OF CREDIT. In individual cases there may be transferred a maximum of 6 semester hours of **resident** graduate credit earned in an accredited college or university regularly granting the master's degree. Final authorization of transferred credit will be made by the Dean of the Graduate School upon the recommendation of the student's committee. This recommendation will be made in the light of the student's total program, after he has been admitted to candidacy for the master's degree. To be accepted as fulfilling part of the requirements for the degree, transferred credit must have been earned within the 6 years immediately preceding the completion of the graduate program. The lowest acceptable grade in any course transferred is "B."

EXTENSION CLASSES. A limited number of courses will be offered off the campus at night or on Saturday during the spring and fall semesters. Such courses will meet once each week, the length of the class period being determined by the credit-hour value of the course. The maximum number of semester hours of extension classes which may be applied toward a degree is 6. The maximum number of hours of combined extension classes and transferred credit which may be applied toward a degree is 9.

APPLICATION FOR GRADUATION. A candidate for the master's degree must file with the Dean of the Graduate School an application for graduation at the beginning of the semester or summer session in which he expects to complete degree requirements.

THE SPECIALIST IN EDUCATION DEGREE

The purpose of the Specialist in Education degree is to provide a plan of organized, advanced study for practitioners in the field of education who wish to develop a higher level of competency. The program makes possible greater depth of specialization than is offered at the master's level, and each program of study is designed to meet the specific and unique needs of a particular professional position.

ADMISSION TO PROGRAMS FOR THE SPECIALIST IN EDUCATION DEGREE. To be considered for admission to a program leading to the Specialist in Education degree, an applicant must satisfy the following requirements:

- a. He must hold a master's degree from a regionally accredited college or university;
- b. He must file an application with the Dean of the Graduate School.

- c. He must have completed at least 3 years of successful, full-time teaching;
- d. He must present letters of recommendation from appropriate school and/or college officials;
- e. He must submit satisfactory scores on the Graduate Record Examinations;
- f. He must take a qualifying examination.

QUALIFYING EXAMINATION AND DEGREE PROGRAM. Each student must take a qualifying examination prior to the approval of a degree program. A graduate committee of at least 4 members of the faculty must approve a degree program for a student after he has completed 9 hours of credit beyond the master's degree **before he may register for additional work toward the Specialist in Education degree.**

GENERAL DEGREE REQUIREMENTS. Degree candidates must complete a unified program of at least 60 semester hours of graduate credit above the bachelor's degree, including a minimum of 30 semester hours in addition to master's degree requirements. A minimum of 36 hours of credit must be earned in courses open only to graduate students.

For classroom teachers, the degree program must include a minimum of 24 semester hours of credit in professional education, 24 hours of credit in the teaching field(s) of the student, and an additional 12 hours to be selected to meet the specific needs of the student.

For school-service personnel, the degree program is planned to meet the peculiar and special requirements for each type of position.

An acceptable thesis must be submitted by each degree candidate. The requirement may be met at either the master's or the specialist's level.

A comprehensive examination, written, oral, or both, will be required of each degree candidate.

A student must earn a minimum average of "B" (3.0) on all graduate work attempted. No course in which a grade lower than "B" is received may be included as part of the 30 hours required beyond the master's degree.

SPECIAL DEGREE REQUIREMENTS. For each degree plan the department involved designates specific courses which must be included in the program.

RESIDENCE REQUIREMENT. The minimum residence requirement is 1 semester or 2 consecutive summer sessions of full-time study beyond the master's degree on the Natchitoches campus after approval of a degree program.

TRANSFER AND/OR EXTENSION CREDIT. A maximum of 9 semester hours of graduate credit earned in extension courses offered by Northwestern State University and/or resident courses pursued at a regularly accredited college or university may be included as part of the required 30 hours beyond the master's degree.

TIME LIMITATION. All work beyond the master's degree which is to be applied to requirements for the Ed.S. degree must be completed within 6 calendar years.

APPLICATION FOR GRADUATION. A candidate for the Specialist in Education Degree must file an application with the Dean of the Graduate School at the beginning of the semester or summer session in which he expects to complete degree requirements.

THE DOCTOR OF EDUCATION DEGREE

The Doctor of Education degree is a professional degree designed to provide advanced educational preparation for persons who have demonstrated superior qualifications for teaching and administrative positions in schools or colleges. Programs are offered in elementary education, health and physical education, and secondary education.

ADMISSION TO A PROGRAM OF STUDY. In addition to meeting the requirements for admission to the Graduate School, a student seeking admission to a program of study leading to the Doctor of Education degree must satisfy the following requirements:

1. He must file an application with the Dean of the Graduate School.
2. He must hold a master's degree from a regionally accredited institution.
3. He must have completed at least 3 years of full-time teaching.
4. He must hold a valid teaching certificate.
5. He must submit letters of recommendation, including letters from institutions in which previous graduate work has been pursued.
6. He must submit satisfactory scores on the Aptitude Test of the Graduate Record Examination and on the Advanced Test in his major field.
7. He must demonstrate proficiency in the use of English, including satisfactory performance on a standardized test such as the Cooperative English Test. The required standardized test is given during the first month of the fall and spring semesters and the summer session. Information relative to the exact time and location of the testing may be obtained from the Department of Testing in Caldwell Hall.
8. He must complete with grades of "B" or above on the Natchitoches campus a minimum of 9 semester hours of graduate credit above the master's degree in courses prescribed by the department in which he intends to do his major work.
9. He must pass the preliminary examinations.
10. He must be recommended by a committee of not fewer than 5 members of the Graduate Faculty and have a tentative degree program approved.

Regular members of the faculty of Northwestern State University, or personnel holding equivalent positions, will not be admitted to doctoral programs at the University.

ADVISORY COMMITTEE. When a student who has been accepted by the Graduate School indicates to the Dean of the Graduate School his desire to seek admission to a program of study leading to the Doctor of Education degree, the head of the department in which the student plans to major will designate a temporary adviser. The temporary adviser will guide the student in the selection of courses for the first semester or summer session. Following the completion of the first semester or summer session of work by the student, the Graduate Dean will appoint a graduate advisory committee of not fewer than 5 members. This action will be based upon the recommendation of the department head of the student's major area. The duties of the advisory committee will include the following:

1. Advising the student;
2. Assisting the student in preparing a program of study;
3. Preparing and administering the preliminary and general examinations;
4. Assisting in planning and conducting research;
5. Supervising and approving the doctoral dissertation;
6. Conducting the final examination.

It will be the responsibility of the student to consult members of his advisory committee frequently and keep them informed of his progress.

PRELIMINARY EXAMINATIONS. Each applicant will be required to take preliminary examinations, written and oral, to determine his qualifications to pursue a doctoral program and to assist his advisers in planning his program. These examinations will be scheduled 2 times each year, the third Wednesday in October and the third Wednesday in March. Before an applicant may take the examinations he must have satisfied conditions 1 through 8 listed under "Admission to a Program of Study."

PROGRAM OF STUDY. The program of study will include approximately 60 semester hours of credit (2 full years of study) beyond the master's degree, or approximately 90 semester hours of credit (3 full years of study) beyond the bachelor's degree. The work beyond the master's degree must include (1) a minimum of 27 semester hours of credit in a major area of concentration, (2) a minimum of 15 hours of credit in a minor area or supporting areas, and (3) 9 semester hours of dissertation credit. Either the area of concentration or the minor or supporting areas must be in professional education.

The student must earn a minimum average of "B" on all graduate work pursued, and at least 50 per cent of the course work applicable to the requirements for the doctor's degree must be earned in courses open only to graduate students. Only courses taught by members of the faculty who hold earned doctor's degrees may be used to satisfy that portion of degree requirements above the master's degree.

TIME LIMIT. After being admitted to a program leading to the Doctor of Education degree, a student will be allowed 6 calendar years in which to complete all remaining requirements for the degree. All work applied to degree requirements, including transferred credit and prior credit at Northwestern State University, but excluding master's degree credit, must have been completed within the 9 calendar years immediately preceding the date the degree is conferred.

RESEARCH TOOLS. Before his dissertation topic will be approved, each candidate for the Doctor of Education degree will be required to demonstrate proficiency in the use of research techniques and tools appropriate to his degree program and prescribed by his faculty advisory committee. The committee will choose 1 of the following options as the minimum manner in which this requirement is to be met:

1. Proficiency in 2 foreign languages, to be prescribed by the faculty advisory committee;
2. Three semester hours of credit in advanced statistics and 3 semester hours of credit in advanced research techniques and procedures;
3. Proficiency in 1 foreign language and 3 semester hours of credit in advanced statistics;
4. Proficiency in 1 foreign language and 3 semester hours of credit in advanced research techniques and procedures.

Some candidates may be required to demonstrate additional proficiency if the nature of their research suggests such a need.

RESIDENCE REQUIREMENT. After being admitted to a program leading to the Doctor of Education degree, a student must earn a minimum of 18 semester hours of credit in approved courses, exclusive of dissertation credit, in continuous, full-time resident study on the Natchitoches campus, including 2 consecutive regular semesters.

PRIOR CREDIT AT NSU. Credit earned in resident, graduate courses with grades of "B" or above prior to August 3, 1968, at Northwestern State University may be applied to requirements for the Doctor of Education degree provided that such credit is approved by the student's doctoral committee and satisfies other regulations governing the doctor's degree.

TRANSFER OF CREDIT. A maximum of 15 semester hours of resident, graduate credit beyond the master's degree may be accepted by transfer from accredited institutions which offer the doctor's degree. Any such credit must

¹For additional information contact the head of the department in which a specific program is offered.

be acceptable in meeting the requirements for the doctor's degree at the institution where the credit was earned, and it must be applicable to the student's approved degree program at Northwestern State University. Transferred credit may not be used to reduce the minimum residence requirement.

GENERAL EXAMINATION. After completing the approved course work and satisfying the prescribed research-tools requirement in his program, and after his committee has approved a dissertation topic, each candidate must take a general examination. This examination must be written and oral, and it should measure the candidate's proficiency in his field of specialization and supporting areas of study. This examination must be passed at least 3 months prior to the date the degree is to be conferred.

ADMISSION TO CANDIDACY. After a student has successfully passed the general examination and a final degree plan has been approved by his faculty advisory committee, he may be recommended by his committee to the Graduate Council for admission to candidacy for the Doctor of Education degree.

DISSERTATION. A satisfactory dissertation is required of each candidate for the doctor's degree. The dissertation must be completed and 4 approved copies with 10 copies of the abstract filed with the Dean of the Graduate School at least 4 weeks before the degree is to be conferred. Two copies of the dissertation will be filed in the Library, 1 copy will go to the major department, and 1 copy to the major professor.

All dissertations will be microfilmed by University Microfilms, Inc., and the student will pay the microfilming fee which provides microfilming of the complete dissertation and publication of an abstract not to exceed 600 words.

FINAL EXAMINATION. At least 2 weeks before the approved copies of the dissertation and abstract are to be filed in the Graduate School Office, the candidate will be given a final examination arranged by his faculty advisory committee. This examination may be both oral and written, but generally it will be oral and it will deal primarily with the candidate's research program.

APPLICATION FOR GRADUATION. A candidate for the Doctor of Education degree must file with the Dean of the Graduate School an application for graduation at the beginning of the semester or summer session in which he expects to complete degree requirements.

THE DOCTOR OF PHILOSOPHY IN EDUCATION DEGREE

The Doctor of Philosophy in Education degree is awarded on the basis of research scholarship, outstanding academic achievement in a special field, and demonstrated ability for independent study and investigation. The University offers this degree in health and physical education.

ADMISSION TO A PROGRAM OF STUDY. In addition to gaining admission to the Graduate School, the applicant for admission to a program of study leading to the Doctor of Philosophy in Education degree must satisfy the following requirements:

1. He must submit satisfactory scores on the Aptitude Test and the appropriate Advanced Test of the Graduate Record Examinations.
2. He must have 3 letters of recommendation sent directly to the Dean of the Graduate School.
3. He must make application at least 30 days prior to enrollment.
4. He must be accepted by the Admissions Committee of the department.

5. He must have completed at least 3 years of full-time teaching, or the equivalent time in related activities.

Regular members of the faculty of Northwestern State University, or personnel holding equivalent positions, will not be admitted to doctoral programs at the University.

PROGRAM OF STUDY. The program of study will include approximately 90 semester hours of credit (3 full years of study) beyond the bachelor's degree, or approximately 60 semester hours of credit (2 full years of study) beyond the master's degree. The program will include a minimum of 15 semester hours of graduate credit in education courses and a minimum of 12 semester hours of credit for the dissertation. A maximum of 15 semester hours may be earned in dissertation credit. The student must earn a minimum average of "B" on all graduate work pursued, and at least 50 per cent of the course work applicable to the requirements for the degree must be earned in courses open only to graduate students. Only courses taught by members of the faculty with earned doctor's degrees may be used to satisfy that portion of degree requirements above the master's degree or its equivalent.

ADVISORY COMMITTEE. When a student who has been accepted by the Graduate School indicates to the Dean of the Graduate School that he wishes to gain admission to a program of study leading to the Doctor of Philosophy degree, the head of the department will be asked by the Graduate Dean to name a temporary adviser. The temporary adviser will guide the student in the selection of courses for the first semester or summer session. Following the completion of the first semester or summer session of work by the student, a graduate advisory committee of not fewer than 5 members will be appointed by the Graduate Dean upon the recommendation of the department head. The duties of the advisory committee will include the following:

1. Advising the student;
2. Assisting the student in preparing a program of study;
3. Conducting the general examinations;
4. Assisting in planning and conducting research;
5. Supervising and approving the dissertation;
6. Conducting the final examination.

FOREIGN LANGUAGE REQUIREMENT. In addition to the usual requirements for the degree, a candidate for the Doctor of Philosophy in Education degree must have a dictionary reading knowledge of 2 foreign languages, or a dictionary reading knowledge of 1 foreign language and proficiency in advanced statistics. The candidate's committee will determine which language or languages will be accepted in meeting this requirement.

ADMISSION TO CANDIDACY. To be admitted to candidacy for the Doctor of Philosophy in Education degree, a student must (1) complete the language requirement specified by his advisory committee, (2) pass the general examination, (3) have a final degree plan approved, and (4) be recommended to the Graduate Council by his committee.

GENERAL EXAMINATION. The general examination, which is designed to measure the student's ability to complete the requirements for the Doctor of Philosophy in Education degree, will be administered by the advisory com-

¹For additional information contact the head of the department in which a specific program is offered.

mittee at such a time as the committee believes the student is ready to take it. This examination will be written and oral, and it should measure the student's proficiency in his field of specialization and supporting areas of study. After the successful completion of the general examination, a final degree plan will be prepared by the advisory committee in conference with the student.

TIME LIMIT. The final 45 semester hours of credit, including dissertation credit, applied to the requirements for the Doctor of Philosophy in Education degree must be completed within 6 calendar years. All work applied to degree requirements, including transferred credit and prior credit at Northwestern State University, but excluding work submitted for the master's degree or its equivalent, must have been completed within the 9 calendar years immediately preceding the date the degree is conferred.

RESIDENCE REQUIREMENT. After being admitted to a program leading to the Doctor of Philosophy in Education degree, a student must earn a minimum of 18 semester hours credit in approved courses, exclusive of dissertation credit, in continuous, full-time resident study on the Natchitoches campus, including 2 consecutive regular semesters.

PRIOR CREDIT AT NSU. Credit earned in resident, graduate courses with grade of "B" or above prior to August 3, 1968, at Northwestern State University may be applied to requirements for the Doctor of Philosophy in Education degree provided that such credit is approved by the student's doctoral committee and satisfies other regulations governing the degree.

TRANSFER OF CREDIT. A maximum of 15 semester hours of resident, graduate credit beyond the master's degree, or its equivalent, may be accepted by transfer from accredited institutions which offer the doctor's degree. Any such credit must be acceptable in meeting the requirements for the doctor's degree at the institution where the credit was earned, and it must be applicable to the student's approved degree program at Northwestern State University. Transferred credits may not be used to reduce the minimum residence requirement.

DISSERTATION. A satisfactory dissertation is required of each candidate for the doctor's degree. The dissertation must be completed and 4 approved copies with 10 copies of the abstract filed with the Dean of the Graduate School at least 4 weeks before the degree is to be conferred. Two copies of the dissertation will be filed in the Library; 1 copy will go to the major department, and 1 copy to the major professor.

All dissertations will be microfilmed by University Microfilms, Inc., and the student will pay the microfilming fee which provides microfilming of the complete dissertation and publication of an abstract not to exceed 600 words.

FINAL EXAMINATION. At least 2 weeks before the approved copies of the dissertation and abstract are to be filed in the Graduate School Office, the candidate will be given a final examination arranged by his faculty advisory committee. This examination may be both oral and written, but generally it will be oral, and it will deal primarily with the candidate's research program.

APPLICATION FOR GRADUATION. A candidate for the Doctor of Philosophy in Education degree must file with the Dean of the Graduate School an application for graduation at the beginning of the semester or summer session in which he expects to complete degree requirements.

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I am interested in attending Northwestern State College. Please send me the necessary application forms to the following address:

Last Name	First	Middle
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Street or P.O. Box

City	State	Zip
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(Please Print or Type)

I am interested in attending Northwestern State College. Please send me the necessary application forms to the following address:

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City	State	Zip
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(Please Print or Type)

(RETURN ADDRESS)

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NORTHWESTERN STATE COLLEGE
NATCHITOCHES, LOUISIANA 71457

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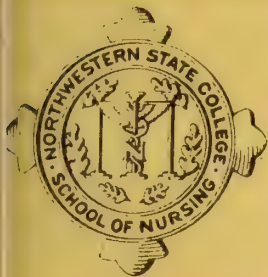
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NORTHWESTERN STATE COLLEGE
NATCHITOCHES, LOUISIANA 71457



LOUISIANA'S OLDEST STATE UNIVERSITY

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College of Nursing Bulletin



**Northwestern State University
of Louisiana
1971**

ALMA MATER

By ISABEL WILLIAMSON

(Mrs. S. J. Cumming)

Air: Watch on the Rhine

Oh, Alma Mater here today,
We for thy lasting blessings pray,
We know not where our paths may go,
But thou'lt uphold us still we know.
Unchanging thou, 'mid changes vast,
Unswerving from ideals of the past,
Steadfast and true, our watchword e'er shall be

To thee, our Alma Mater, Loyalty!
Thy trees their solemn chorus bend
About thee, flowers their censers blend.
Our voices swell their murmuring strain.
Our hearts repeat the old refrain,
Thy purpose high to carry on—
Northwestern, thou hast honor won!
Steadfast and true, our watchword e'er shall be—

To thee, our Alma Mater, Loyalty!
In after years, when far away
Thy presence strong will near us stay;
And as the echo of our song
Will, with new courage, lead us on;
And to our eager vision then
Each subtle memory meaning lend,
Steadfast and true, our watchword e'er shall be—
To thee, our Alma Mater, Loyalty!

Northwestern State University Bulletin

Natchitoches, Louisiana

Vol. LIX

February 1971

No. 6

COLLEGE OF NURSING BULLETIN 1971



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CALENDAR

1971-1972

1972-1973

1971	SEPTEMBER						1971
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UNIVERSITY CALENDAR 1971-1972

Summer Session, 1971

Session Begins	8:00 a.m., Saturday, May 29, 1971
Freshman Dormitories Open	1:00 p.m., Sunday, May 30, 1971
Freshman Orientation	Monday, May 31 to noon, Tuesday, June 1, 1971
Registration	Noon, Tuesday to noon, Wednesday, June 1-2, 1971
Classes Begin	8:00 a.m., Thursday, June 3, 1971
Last Date to Register for Credit	Wednesday, June 9, 1971
Last Date to Drop Courses Without Penalty	Wednesday, June 23, 1971
Holiday	Monday, July 5, 1971
Session Examinations	Monday-Wednesday, July 26-28, 1971
Session Grades Due	Noon, Thursday, July 29, 1971
Commencement Exercises	8:00 p.m., Friday, July 30, 1971
Session Ends	Friday, July 30, 1971

Fall Semester, 1971

Semester Begins	8:00 a.m., Saturday, September 11, 1971
Freshman Dormitories Open	1:00 p.m., Sunday, September 12, 1971
Freshman Orientation	8:00 a.m., Monday to noon, Tuesday, September 13-14, 1971
Registration	Noon, Tuesday to noon, Thursday, September 14-16, 1971
Classes Begin	8:00 a.m., Friday, September 17, 1971
Last Date to Register for Credit	Friday, September 24, 1971
Last Date to Drop Courses Without Penalty	Friday, October 29, 1971
Mid-Semester Grades Due	Noon, Monday, November 15, 1971
Thanksgiving Holidays	Noon, Wednesday, November 24 to 8:00 a.m., Monday, November 29, 1971
Christmas Holidays	Noon, Saturday, December 18, 1971 to 8:00 a.m., Monday, January 3, 1972
Semester Examinations	Monday-Saturday, January 17-22, 1972
Semester Grades Due	Noon, Monday, January 24, 1972
Commencement Exercises	8:00 p.m., Thursday, January 27, 1972
Semester Ends	Thursday, January 27, 1972

Spring Semester 1972

Semester Begins	8:00 a.m., Saturday, January 29, 1972
Freshman Dormitories Open	1:00 p.m., Sunday, January 30, 1972
Freshman Orientation ..	8:00 a.m., Monday to noon, Tuesday, January 31- February 1, 1972
Registration ..	Noon, Tuesday to noon, Thursday, February 1-3, 1972
Classes Begin	8:00 a.m., Friday, February 4, 1972
Last Date to Register for Credit	Friday, February 11, 1972
Mardi Gras Holidays	Noon, Saturday, February 12 to 8:00 a.m., Thursday, February 17, 1972
Last Date to Drop Courses Without Penalty	Wednesday, March 22, 1972
Mid-Semester Grades Due	Noon, Tuesday, March 28, 1972
Easter Holidays	8:00 a.m., Wednesday, March 29 to 8:00 a.m., Wednesday, April 5, 1972
Semester Examinations	Monday-Saturday, May 22-27, 1972
Semester Grades Due	Noon, Monday, May 29, 1972
Commencement Exercises	8:00 p.m., Thursday, June 1, 1972
Semester Ends	Thursday, June 1, 1972

Summer Session, 1972

Session Begins	8:00 a.m., Saturday, June 3, 1972
Freshman Dormitories Open	1:00 p.m., Sunday, June 4, 1972
Freshman Orientation	Monday, June 5 to noon, Tuesday, June 6, 1972
Registration	Noon, Tuesday to noon, Wednesday, June 6-7, 1972
Classes Begin	8:00 a.m., Thursday, June 8, 1972
Last Date to Register for Credit	Wednesday, June 14, 1972
Last Date to Drop Courses Without Penalty	Wednesday, June 28, 1972
Holiday	Monday, July 3, 1972
Session Examinations	Monday-Wednesday, July 31-August 2, 1972
Session Grades Due	Noon, Thursday, August 3, 1972
Commencement Exercises	8:00 p.m., Friday, August 4, 1972
Session Ends	Friday, August 4, 1972

FACULTY

- BUHLER, CHARLES A., *Associate Professor, Assistant to the Dean and Acting Director, Shreveport Campus.* B.S., M.S., Ed.D., University of Arkansas.
- CALENDER, TINY M., *Associate Professor of Nursing.* Diploma, Baton Rouge General Hospital School of Nursing; B.S.N.Ed., M.Ed., Louisiana State University.
- CASEY, MARGARET L., *Instructor of Nursing.* B.S.N., Northwestern State University; M.N., Emory University.
- DOWNS, BOBBY C., *Instructor of Nursing.* B.S.N., Northwestern State University; M.S., University of Maryland.
- DICKERSON, BARBARA, *Assistant Professor of Nursing.* B.S.N., Northwestern State University; M.S.N., University of Texas.
- EVERETT, ANN SCOTT, *Instructor of Nursing.* Diploma, Jefferson Hillman School of Nursing; B.S., University of Alabama.
- GATES, CLARA E., *Assistant Professor of Nursing.* Diploma, Schumpert Hospital School of Nursing; B.S., Northwestern State University; M.N., Emory University.
- GEERS, BERNICE E., *Librarian.* B.S.Ed., Northeast Louisiana State University.
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- HAYES, BETH, *Instructor of Nursing.* B.S.N., Northwestern State University.
- HICKS, MARGARET C., *Assistant Professor of Nursing.* B.S., University of Maryland; M.S., Teachers College, Columbia University.
- HIERN, SARA S., *Instructor of Nursing.* B.S.N., Northwestern State University; M.S., Tulane University.
- HILL, PEGGY, *Assistant Professor of Nursing.* B.S.N., Northwestern State University; M.N., Emory University.
- HILLE, BETTY F., *Instructor of Nursing.* B.S.N., Northwestern State University; M.N., Emory University.
- LANGSTON, NANCY, *Instructor of Nursing.* B.S.N., University of Arkansas.
- LEDBETTER, PEGGY J., *Associate Professor and Dean, College of Nursing.* B.S., Samford University; B.S.N., M.S., Ed.D., University of Alabama.
- LIPSEY, MARTHA S., *Instructor of Nursing.* B.S.N., Northwestern State University.
- MINTER, CALLIE L., *Instructor of Nursing.* B.S.N., Northwestern State University; M.S., University of Alabama.
- MOSELEY, ELIZABETH A., *Instructor of Nursing.* B.S.N., Northwestern State University; M.N., Emory University.
- PAYNE, KATHRYN A., *Instructor of Nursing.* B.S.N., University of Iowa; M.S.N., The Catholic University of America.
- PINGREY, FRANCES R., *Assistant Professor of Nursing.* B.M.Ed., Lamont School of Music; Diploma, Mercy Hospital School of Nursing; M.A., University of Denver.
- RILEY, GRACE R., *Assistant Professor of Nursing.* Diploma, Frankford Hospital School of Nursing; B.S.N.Ed., C.P.H., University of Pennsylvania; M.S.H., Ed., Florida State University.
- ROGERS, ILA M., *Instructor of Nursing.* B.S.N., Northwestern State University.
- ROSENWASSER, FRIDA H., *Assistant Professor of Nursing.* Diploma, Kings County Hospital School of Nursing; B.S.Ed., Hunter College; M.S., Columbia University.
- ROSS, JOAN, *Instructor of Nursing.* B.S.N., Texas Christian University; M.A., Columbia University Teachers College.
- SIMMONS, FRANCES, *Instructor of Nursing.* B.S.N., Northwestern State University; M.Ed., Northwestern State University.
- TORRIS, GERTRUDE S., *Assistant Professor of Nursing.* Diploma, Flower and Fifth Avenue Hospital School of Nursing; B.S., M.A., Teachers College, Columbia University.
- WILLIAMSON, JUNE, *Assistant Professor of Nursing.* B.S., Medical College of Virginia; M.S., University of Alabama.

HISTORY OF THE UNIVERSITY

Northwestern State University of Louisiana stands on ground that has been dedicated to learning for more than a hundred years. Before the Civil War a portion of the present campus was the property of the Bullard family of Natchitoches, Louisiana. As early as 1856 the Bullard mansion was in use as a convent by the Religious of the Society of the Sacred Heart. The following year a school building was erected at the convent, and in 1884 the property was purchased by the town and parish of Natchitoches. Three of the 4 great white columns that supported the east gable of the Bullard mansion still stand on "the Hill," and often serve as unofficial symbols of the University.

When the Louisiana legislature created a Louisiana Normal School in 1884, Captain Leopold Caspari, a member of the legislature, offered the site as a campus for the School with the anticipated approval of the citizens of Natchitoches. The offer was accepted, and from 1885 to 1918 the Normal School offered 2 years of study for the training of teachers. In 1918 the School became Louisiana State Normal College, offering 4 years of academic work.

The functions and curricula of the State Normal College grew steadily to meet the increasingly diverse requirements of Louisiana's expanding population. In 1944 the institution's excellent service in its broader role was given formal recognition in a new title, Northwestern State College of Louisiana.

For 26 years Northwestern State College maintained and strengthened its long tradition of leadership in public service and academic excellence, becoming, in 1954, the first college under the jurisdiction of the State Board of Education to offer the master's degree. The Specialist in Education degree was first offered in 1966, and the Doctor of Education and the Doctor of Philosophy in Education degrees were authorized in 1967.

On June 18, 1970, Governor John J. McKeithen signed the legislative act which brought the old campus its greatest distinction by changing its title to Northwestern State University of Louisiana.

Now nearing a century of productive service to the people of the state, the University comprises the colleges of Basic Studies, Business, Education, Liberal Arts, Nursing, and Science and Technology, the Graduate School, and a broad array of auxiliary instructional and supporting agencies.

The University maintains a campus in Shreveport for juniors and seniors majoring in Nursing. Located on this campus are instructional facilities, student housing, and faculty and staff. College of Education student teachers and College of Science and Technology majors in Radiological Technology may reside on this campus.

PURPOSE

Northwestern State University sees its purpose as offering educational, cultural and consultative services primarily to the people of this section of the state. Regionalism notwithstanding, the University endeavors to give its students foundations in three broad areas; the educational tools--the knowledge, skills, understanding and attitudes--necessary to function successfully in occupational fields; the appreciation needed to achieve greater happiness and satisfaction from life; and the service concept of responsibility to others.

Implementing such purposes, the University strives

1. To sustain an environment in which respect for the integrity of the individual is shared mutually by students and faculty
2. To offer students the opportunity for higher education in career fields
3. To offer students a general education essential for understanding man and his environment and for promoting self-understanding and personal fulfillment

4. To develop citizens with understanding and appreciation of the roles of the individual and the group in maintaining a democratic society

5. To provide educational offerings that will stimulate intellectual curiosity and self-discipline, and encourage faculty and student research

6. To offer basic curricula of a quality that will prepare and motivate students to pursue advanced study

7. To offer appropriate cultural and consultative services beyond the campus environs

8. To provide faculty members the environment and educational tools conducive to continued intellectual development, effective production, and satisfaction in work

DEGREES

Act 173 of the General Assembly of Louisiana for the year 1918 authorized the State Normal College, now Northwestern State University, to confer the baccalaureate degree on all students who complete 1 of the 4-year curricula. Students completing a teacher-education curriculum are qualified, under the laws of Louisiana and the regulations of the State Board of Education, to teach in the elementary or secondary schools of the state.

Two-year Associate Degree programs are offered in the following areas: chemical technology, drafting technology, electronics technology, merchandising, printing technology, secretarial administration, teacher aide, tool and die design technology, and woodworking technology.

HISTORY OF THE COLLEGE OF NURSING

Northwestern's nursing program is the outgrowth of long range planning by communities which were interested in and recognized the need for, better nursing services and better educational opportunities for prospective professional nurses.

In 1947, four hospital schools of nursing in Shreveport who had considered pooling their resources conferred with the Shreveport League for Nursing Education and the Shreveport Hospital Council. Upon the recommendation of the League, the Hospital Council authorized a survey by Dean Julia M. Miller of the Emory University School of Nursing. The survey pointed up the availability of clinical and community facilities in and around Shreveport, outlined the need for a sound collegiate program in nursing, and recommended the establishment of a school of nursing at Northwestern.

In 1949, four hospitals in Shreveport (Highland, North Louisiana, Tri-State, and Shreveport Charity) agreed to discontinue their schools of nursing, to furnish clinical facilities, and to recruit students for the newly formulated Department of Nursing in the School of Applied Arts and Sciences of Northwestern State College. In its early years, an attempt was made to provide clinical "divisions" over a wide geographic area of the state. Other than Shreveport, cooperating areas were Monroe (E. A. Conway, 1949-1954), Alexandria (Baptist, 1950-1959), and Baton Rouge (Baton Rouge General, 1951-1970). Beginning in 1952, Central Louisiana State Hospital in Pineville provided experience in psychiatric nursing for all students, and for many years, public health units over the entire state were used. Currently, all these campuses have been consolidated and only one is maintained—the Shreveport Campus.

From 1953 when, due to ever increasing enrollment, the Department of Nursing became the School of Nursing, the program has developed and many changes have been made in the curriculum as well as facilities. More than 1200 men and women have been graduated — a significant contribution to professional nursing. In 1970, when Northwestern achieved University status, the former School of Nursing became a College.

PHILOSOPHY OF THE COLLEGE OF NURSING

The College of Nursing shares the philosophy of Northwestern State University which "endeavors to give its students foundations in three broad areas; the education tools — knowledge, skills, understanding and attitudes — necessary to function successfully in occupational fields; the appreciations needed to achieve greater happiness and satisfaction from life; and the service concept of responsibility to others."

The faculty of the College of Nursing subscribes to a philosophy of education which recognizes the dignity, worth, and individuality of the learner. We believe that education is a process providing the opportunities for development and cultivation of personal and professional potentialities. We believe that learning is manifested by change in behavior involving the way in which an individual thinks and feels as well as acts.

The essence of professional nursing is a commitment to serve humanity. The professional nurse believes in the worth and dignity of all people and is committed to the maintenance and promotion of health in individuals and society. Recognizing the interrelatedness of physiological homeostasis, psychological equilibrium and sociocultural interaction, the nurse creatively applies scientific facts, theories, and principles in assisting individuals to maintain or establish an optimum state of health.

The professional nurse is morally and legally responsible for nursing care rendered. Nursing actions and judgments are based on scientific facts, theories and principles and are within the limit of laws regulating nursing practice. The maintenance of competence in practice is the personal responsibility of each practitioner.

The professional nurse provides quality nursing care which is determined by changes in scientific development and changes in the health needs of society. Therefore, the professional nurse incorporates new techniques and knowledge in health care as these develop and continually updates and expands the body of knowledge on which nursing practice is based.

PURPOSE AND OBJECTIVES

The purpose of the College of Nursing is to provide educational experiences which equip individuals with competence for becoming professional practitioners of nursing and responsible contributing members of their profession and their community. It also provides the foundations for further professional study and self-actualization.

Graduates will be prepared to:

1. Exercise judgment in planning, implementing, and evaluating nursing care based on the needs of patients.
2. Demonstrate knowledge of natural and behavioral science principles basic to the understanding of human beings.
3. Be self-directive in expanding knowledge and skills related to personal and professional development.
4. Cooperatively and productively interact with other health team members and citizen groups in promoting and maintaining health.
5. Assume the responsibility for sharing knowledge which contributes to optimum patient care.

ACCREDITATION

The College of Nursing is accredited nationally by the National League for Nursing, and in the state by the Louisiana State Board of Nurse Examiners. The University is a member in good standing of the Southern Association of Colleges and Secondary Schools, the Association of American Colleges, and the American Association of Colleges for Teachers Education.

Northwestern State University within the legal structure of the State Board of Education and the State Board of Nurse Examiners, exercises complete control of the nursing education program.

UNDERGRADUATE ADMISSION REQUIREMENTS

1. Any high school graduate will be considered for admission if the secondary school from which he graduated is approved by the Louisiana State Department of Education or by a recognized accrediting agency.

2. Applicants for admission who are graduates of unapproved secondary schools may be admitted as regular students by examination. Mature students 21 years of age or older who are not high school graduates may be admitted on scholastic probation as special students, subject to the following regulations:

a. They must present satisfactory evidence to the academic dean concerned that they are qualified to do the work in the field they wish to enter.

b. They are subject to all University rules related to registration, class attendance, discipline, and scholarship.

c. They may not become candidates for degrees until all entrance requirements have been fulfilled.

3. Every applicant for admission must complete the forms required by the Registrar, reporting all information truthfully and in full. Any high school graduate must have his credentials forwarded to the Registrar by his high school principal.

4. *An applicant for admission from another institution must submit an official original transcript of record from each college attended prior to the beginning of the semester in which he wishes to enter. This transcript must be completed and signed by an authorized person, must be mailed directly to the Registrar, and must not come through the hands of the candidate.*

No credit earned in institutions not approved by accrediting agencies is accepted without the consent of the Admissions, Credits, and Graduation Sub-Council.

No credit will be granted for work done by any student anywhere while he is under official suspension from any educational institution.

No transfer student will be admitted if he is ineligible to re-enter the institution which he formerly attended; any student on probation at such institution will be accepted at Northwestern State University only on probation. Any transfer student whose scholastic average is such that he would have been on probation if his credits had been earned at Northwestern State University will be admitted only on probation.

No transfer student may enroll in the College of Education if he is ineligible to continue in the school of education in which he was last enrolled.

5. Applicants for the College of Nursing should refer to the College of Nursing Bulletin for special admission requirements.

6. Applicants for the Graduate School should refer to the Graduate School Bulletin or the Graduate School section of this Catalogue for admission requirements.

7. Applicants for admission to the Summer School are subject to the same regulations which apply to those seeking admission to the University in the regular sessions, with this exception: A candidate for admission by transfer from another institution who does not plan to continue in Northwestern State University in the regular session may submit a "letter of good standing," from the last college attended in lieu of the customarily required college transcript(s).

8. While the University does not base eligibility for admission upon test scores, all entering freshmen and new transfer students with fewer than 3 semester hours of credit in English composition and 3 semester hours of credit in mathematics must take the American College Testing (ACT) Program tests. The test scores must be sent from American College Testing Program to the Department of Testing, Northwestern State University (University Code—1600) before registration. If the scores have not been received from ACT at the beginning of registration the student will be required to retake the tests before being permitted to register. These tests are given at designated centers throughout the United States (and in certain foreign countries) on 5 established dates during the year—October, December, February, April, and July. Application for the tests must be received by the ACT Registration Unit, P.O. Box 414, Iowa City, Iowa 52240, approximately 5 weeks in advance of the test date. Detailed information and application forms may be obtained from high school principals or counselors or by writing directly to ACT Publication, Box 168, Iowa City, Iowa 52240.

It is most important that the student plan well ahead and take the ACT tests early enough for his scores to be received by the University prior to his enrollment. Students are urged to take the tests at least 60 days prior to the anticipated date of enrollment. The results of the tests are used to determine placement in the basic subjects and to provide information to the faculty and staff who assist students in planning their programs.

REGISTRATION IN A CURRICULUM

Each annual University Catalogue becomes effective at the opening of the summer session. It prescribes in detail the requirements for graduation in all curricula offered by the University. Each student entering Northwestern must register in a curriculum, and in order to graduate must complete satisfactorily the work required as described in the catalogue which is in effect at the time he registers in that curriculum or the 1 in effect at the time he completes degree requirements. All freshmen and all transfer students who have earned less than 30 semester hours of credit must enroll in the College of Basic Studies. They may register in the General Curriculum or other curriculum of their choice.

If a student transfers to another institution, or to another curriculum within Northwestern State University, for 1 regular semester or longer, and then returns to Northwestern or to his original curriculum, he will be required to complete the work prescribed in the catalogue which is in effect at the time of his return.

A student who enters an approved curriculum is expected to complete the work required in that curriculum within 7 years. After that time he may become subject to current catalogue requirements. Exceptions to this requirement may result from actions taken by authorities higher than the University and may arise in certain cases involving teacher certification.

GENERAL REQUIREMENTS FOR GRADUATION

In order to earn a bachelor's degree, a student must accomplish the following:

1. Complete an approved curriculum.
2. Earn at least a C (2.0) average on all hours pursued in his major field and in his minor field, if a minor is required.
3. Earn at least a C average on all hours pursued and on all hours pursued at Northwestern State University. A grade of F received in a course taken at Northwestern State University can be removed only at Northwestern State University.
4. Complete satisfactorily the required orientation program and Political Science 450.
5. Fulfill the residence requirement.
6. Complete satisfactorily all core and special requirements specified by the College in which he is enrolled.
7. Clear all University accounts.

ADMISSION AND COUNSELING OF FOREIGN STUDENTS

Any properly qualified foreign national may be admitted to Northwestern State University on the following conditions:

1. Each applicant for admission must submit the following:
 - a. All forms required by the Registrar.
 - b. An official transcript of his studies, showing satisfactory completion of the recognized equivalent of a United States high school course. All transcripts must be in English.
 - c. An unretouched photograph.
 - d. A complete physical description, including race and color.
 - e. A statement of curriculum preference and desired date of entry.
 - f. A Test Of English As A Foreign Language (TOEFL) with a minimum score of 450.
2. Each applicant must pay the non-resident student fee of \$250 per semester (\$125 per summer session).
3. Each applicant must pay the required \$25 room deposit.
4. Each applicant must bring with him a minimum sum of \$500 to insure his ability to meet all financial obligations. *No foreign student will be allowed to register until evidence of the possession of these funds has been presented to the Registrar.*

The applicant's credentials should give evidence of good moral character, of sound mental as well as physical health, and of release without prejudice from any educational institution previously attended. Admission without examination will be granted to graduates of secondary schools accredited by the universities of their own countries. In special emergencies a student may be admitted provisionally pending the arrival of verifying credentials. All information and supporting documents requested must be furnished. Eligible students may apply for financial aid from the Rowe Fund. Applications for admission should be received at least a month prior to the opening of the term in which the student expects to enter.

All foreign students are required to take courses in English as a Foreign Language unless they are excused by the Head of Department of Testing. Qualified students may be admitted to regular English courses. The courses in English as a Foreign Language may be used as electives in the various 4-year curricula, but may not be substituted for any English courses required for graduation.

The services of the Speech Clinic are available to all foreign students to assist them in their development of proficiency with spoken English.

Any foreign student who does not graduate will, at his request, be furnished a properly certified transcript or letter listing all courses he has completed.

All correspondence should be directed to the Registrar, Northwestern State University, Natchitoches, Louisiana. Upon arrival at the University, all foreign students must report to the Registrar.

POLICIES ON CREDITS GRANTED TO VETERANS

Veterans with at least 1 year of active service, except majors in health and physical education, may be allowed a maximum of 7 semester hours of credit in health and physical education and 1 hour of credit in Political Science 450 in accordance with policies recommended by the American Council on Education. Veterans should submit official copies of service records to the Registrar during the first semester of attendance.

To receive credit for work done in service schools, veterans must submit official copies of service records to the Registrar during the first semester of attendance. These records must so identify the courses as to enable the Registrar to locate them in the Guide to the Evaluation of Educational Experience in the Armed Forces, prepared by the American Council on Education. The amount of such credit, if any, which may be counted toward a degree in a particular curriculum is left to the discretion of the dean concerned.

A student may receive some credit for all or part of the basic Military Science Course through prior military service. Interested students should contact the Professor of Military Science prior to registration.

ORIENTATION

All freshmen and transfer students are required to schedule orientation during their first period of enrollment. Satisfactory completion of the course or courses is required for graduation in all curricula.

Students who earn credit in Orientation 102 before taking Orientation 101 are not required to take 101, but will have 2 semester hours added to the requirements for a degree. Students who take 102 after having earned credit in 101 will have 3 semester hours added to requirements for a degree. Orientation 103 is required of all students enrolled in the General Curriculum, and adds 1 hour to degree requirements.

FRESHMAN ENGLISH

Beginning with the first semester of their enrollment at Northwestern State University, all freshmen students and all transfer students who have not completed English 101 and 102 must pursue the freshman English courses consecutively until successfully completed. Permission will not be granted to drop a freshman English course.

MAXIMUM AND MINIMUM WORK

The maximum amount of course work for which a student may register in any 1 regular semester is 21 semester hours, at least 1 of which must be an activity course. The minimum student load is 12 semester hours, unless the student is a candidate for graduation with fewer than 12 hours remaining to be taken or is pursuing a curriculum which requires less than 12 hours during that semester.

In special cases, the student may secure from his academic dean permission to schedule a course load greater than the maximum or less than the minimum.

LATE REGISTRATION

Except under special conditions, no student is permitted to register after 1 week of a regular semester or after the first week of a summer session.

GENERAL CURRICULUM

Students ready to enter the University without having decided on a major area of study are encouraged to enroll in the General Curriculum. This program is designed to provide special assistance to beginning students while they are in the process of selecting a major field. Students in the General Curriculum register in the College of Basic Studies and are advised by personnel of the Department of Counseling. The General Curriculum is described in detail elsewhere in this Catalogue (see College of Basic Studies).

ADVANCED STANDING EXAMINATIONS

Undergraduate students may receive advanced standing as indicated below. Administrative guidance for students who desire to take advanced standing examinations is provided by the Department of Testing.

1. Engineering Drawing: students who have earned 2 units in drafting or mechanical drawing in high school or the equivalent of 2 units in a vocational school may take an examination for advanced standing in engineering drawing. Those students who on the basis of their test scores are permitted to skip a course will receive credit for the course skipped, provided they complete the course in which they are placed with a grade of C or better. The grade recorded for the course skipped will be the same as the grade earned in the course in which the student was placed.

2. English: students who have had no previous college English and who on the basis of their placement test scores are permitted to skip English 101 and 102 will receive credit for the course(s) skipped provided they complete the English course in which they are placed with a grade of C or better. The grade(s) recorded for the course(s) skipped will be the same as the grade earned in the course in which the student was placed.

3. Foreign Languages: students may take an examination for advanced standing in a foreign language in which they earned 2 or more high school units. Those students who on the basis of their test scores are permitted to skip a course will receive credit for the course(s) skipped provided they complete the course in which they are placed with a grade of C or better. The grade(s) recorded for the course(s) skipped will be the same as the grade earned in the course in which the student was placed.

4. Mathematics: students who have had no previous college mathematics and who on the basis of their placement test scores are permitted to skip Mathematics 103 and or Mathematics 109 will receive credit for the course(s) skipped. Students may receive credit for 103 upon the completion of Mathematics 109 with a grade

of C or better. Students must complete Mathematics 110 with a grade of C or better in order to receive credit for Mathematics 109. The grade(s) recorded for the course(s) skipped will be the same as the grade earned in the course taken to validate credit in the course(s) skipped.

5. Office Administration: students who have earned 1-2 units in typewriting or stenography in high school or the equivalent of 1-2 units in a vocational school may take an examination for advanced standing in office administration. Those students who on the basis of their test scores are permitted to skip either Office Administration 101, 102, 201, and 202 or any combination of these courses will receive credit for the course(s) skipped provided they complete the Office Administration course in which they are placed with a grade of C or better. The grade(s) recorded for the course(s) skipped will be the same as the grade earned in the course in which the student is placed.

SEMESTER AND MID-SEMESTER EXAMINATIONS

Final examinations are scheduled at the end of each regular semester and summer session. Any deviation from the published examination schedule must have the approval of the appropriate academic dean.

No student is to be exempted from a final examination. Absence from a final examination, except in cases of unusual emergency, will be construed and recorded as failure in the course.

SPECIAL EXAMINATIONS FOR CREDIT

Any student who wishes to take a Special Examination for credit in a course must comply with the following regulations and policies:

1. Special Examinations may be taken only by regularly enrolled students.
2. Permission is not granted to take a Special Examination in (1) a graduate course, (2) a course which is a prerequisite, stated or implied, for an advanced course in the same discipline for which credit has been earned, or (3) a course which a student has pursued beyond the first 6 weeks of a regular semester or the first 3 weeks of a summer session.
3. Special Examinations may be taken only during the first 6 weeks of a regular semester or the first 3 weeks of a summer session.
4. A fee of \$5 is charged for each Special Examination.
5. Credit granted on the basis of a Special Examination is so entered on the student's record and marked with the grade earned on the Examination, A, B, C, D, or F.
6. Credits earned by Special Examination are not considered in determining academic probation and/or suspension at the end of a semester or summer session.
7. Special Examination may not be repeated.
8. Written permission to take a Special Examination must be secured by the student from his adviser, department head, dean, the head of the department in which the course is offered, and the Registrar. Instructors may not give a Special Examination for credit until notified by the Registrar that permission has been granted.

When the Special Examination has been completed and its results determined, the instructor administering the test will send an original grade slip to the Registrar with a notation on the slip that the course was completed by Special Examination. The duplicate grade slip, similarly marked, is sent to the academic dean.

CREDIT FOR CORRESPONDENCE AND EXTENSION WORK

If a student desires to register at another school for correspondence or extension courses to be used in meeting degree requirements at Northwestern State University, he must obtain in advance the permission of the dean of the college in which he is registered. Candidates for graduation must complete such work and have their record placed on file in the Registrar's office at least 30 days before the date of graduation. *No grade of F earned at Northwestern State University may be removed by correspondence at another institution.*

ADDING, DROPPING, AND SUBSTITUTING COURSES

Under certain conditions, students may secure permission to add, drop, or substitute courses. Permission to drop full semester courses will not be granted without penalty after the first 6 weeks of a regular semester or after 3 weeks of a summer session. Courses may be dropped thereafter only with a grade of F, unless the dean of the college in which the student is registered authorizes the Registrar in writing to substitute a grade of W. A student must not stop attending a class until he has officially dropped it.

Authorization to substitute a course for another which is specified in a curriculum requires the initial approval of the student's adviser with the subsequent approval of the head of the department which offers the curriculum being pursued by the student and the dean of the college in which the student is registered.

CREDIT FOR EXTRACURRICULAR ACTIVITIES

No more than 6 semester hours of credit earned in any of the following extracurricular activities may be applied toward fulfillment of degree requirements: band, chorus, debate, drama, ensemble, orchestra, radio, except in the case of music curricula requiring 8 semester hours of band, chorus, ensemble, or orchestra. A maximum of 3 semester hours of credit in any 1 of these activities may be applied to degree requirements.

GRADES AND QUALITY POINTS

Students are graded in their studies on the quality of their work. Five grades are in use, as follows: *A* (excellent), *B* (good), *C* (average), *D* (poor), and *F* (failure). The grades of each student are entered in the records at the end of each semester. If a student resigns at mid-semester or thereafter, his mid-semester grades are used to determine his status on his return.

I means that a student's work in a certain course is incomplete because of circumstances beyond his control, but is satisfactory in other respects. The deficiency must be met during the next semester or summer session of attendance, the permanent grade being filed in the customary manner; otherwise the mark *I* automatically becomes *F*. A student whose academic status is dependent upon removal of an incomplete grade must remove the *I* within 5 weeks of the next period of attendance.

A student who repeats a course which he has successfully completed must accept the last grade received as final.

W represents an official withdrawal from the course.

Grade Reports. At the middle and at the end of each semester the record of each undergraduate student is sent by mail to his parents or guardian.

Quality Points. In addition to earning credit hours for courses satisfactorily completed, students earn quality points according to the semester grades they make in the courses pursued. The following table is used in computing quality points:

Grade *A* yields 4 points for each semester hour of credit represented.

Grade *B* yields 3 points for each semester hour of credit represented.

Grade *C* yields 2 points for each semester hour of credit represented.

Grade *D* yields 1 point for each semester hour of credit represented.

Grade *F* yields no points.

CLASSIFICATION OF STUDENTS

The following table shows the minimum requirements in semester hours and in quality points for classifying students in the several ranks:

	<i>Class</i>	<i>Semester Hours</i>	<i>Quality Points</i>
Freshman	1-1	0	0
	1-2	15	30
Sophomore	2-1	30	60
	2-2	45	90
Junior	3-1	60	120
	3-2	76	152
Senior	4-1	92	184
	4-2	108	216

HONOR ROLL

Any regular student who makes a *B* average or better in any semester or summer session shall be placed on the Honor Roll for that term.

To be placed on the Honor Roll at Commencement, a student must have at least a *B* average on all work pursued. A student who has earned any part of his credits elsewhere must have a *B* average on that portion of his credits earned at Northwestern State University as well as an over-all *B* average.

RESIGNATION FROM THE UNIVERSITY

Any student who wishes to resign from the University must submit a written statement of approval of his resignation from his parent or guardian to the head of the Department of Counseling.

No grades are recorded for a student who resigns prior to the middle of a semester or summer session. If a student resigns at mid-semester or thereafter, his mid-semester grades determine his status upon his return.

A grade of *F* for each course will be given to any student who withdraws from the University without official permission. Students who disregard the rules governing resignations are recorded as dismissed from the University and may forfeit all claims to refunds by the Controller.

DISMISSAL FROM COURSES

With the approval of the dean of the college and head of the department offering the curriculum in which the student concerned is registered, an instructor may at any time dismiss a student from a course. Written notice of dismissal, signed by the instructor, department head and dean concerned, should be sent immediately to the Registrar. Such dismissal, following proper consultation and approval, is considered a failure and is indicated on the student's record by the grade of *F*.

SCHOLASTIC PROBATION, SUSPENSION, AND

READMISSION REGULATIONS

Adopted by State Board in December, 1964

1. All full-time or part-time students, *other than first-semester freshmen*, who fail to earn at least a D average (1.0) on all hours pursued during a semester will be suspended for 1 full semester. Those whose averages range from 1.0 to 1.5 will be placed on probation.
2. All first-semester freshmen, whether full-time or part-time, who fail to earn a grade point average of at least 1.5 during their first semester of study will be placed on probation.
3. a. A student on probation will be given 1 semester to make a C average (2.0) on all hours pursued during that semester which will remove him from probation; if he does not make a C average, he will be suspended for 1 semester.
b. If a person is placed on probation as a full-time student, he may remove himself from probation *only* as a full-time student.
c. If a person is a part-time student at the time he is placed on probation, he must pursue at least as many hours to remove himself from probation as he was pursuing at the time he was placed on probation.
4. After the lapse of 1 semester, a student may re-enter on probation, but he must make a C average on all hours pursued during the semester, or he will be suspended again.
5. A student who resigns after 9 weeks of a semester will receive at the time of withdrawal grades of WA, WB, WC, WD, or WF; and these grades will be used in computing his academic status.
6. A student suspended at the end of the spring semester may attend the summer session, but he must remain out during the fall semester. Grades earned during a summer session do not change the probational or dismissal status of a student.
7. A student suspended for scholastic deficiencies may re-enroll after the expiration of 1 semester until his fourth suspension, which dismisses him permanently.
8. A student under suspension for scholastic reasons may not obtain credit toward a degree on courses pursued at another institution during the period when he is ineligible to register in an institution under the jurisdiction of the State Board of Education.

APPEAL

Any student who has been suspended for scholastic reasons and who feels that his work was adversely affected by circumstances beyond his control may request that the period of his suspension be waived. Forms to be used in making this appeal are available in the office of the Registrar.

DEFINITION OF A FULL-TIME STUDENT

A full-time student is one who is taking at least 12 semester hours of scheduled work during a semester or at least 6 semester hours in a summer session.

DEFINITION OF A PART-TIME STUDENT

Any student taking less than 12 semester hours in a regular semester or less than 6 semester hours in a summer session will be a part-time student.

DEFINITION OF HOURS PURSUED

Hours pursued are defined as all courses completed and those courses not completed in which the grade of WA, WB, WC, WD, or WF is received. If a student repeats a course, the last grade and credits made shall be used in computing the point ratio.

ADMISSION BY TRANSFER

Transfer students must be eligible to re-enter the institution from which they are transferring.

INFORMATION SHOWN ON TRANSCRIPTS

FOR STUDENTS TRANSFERRING

Any transcript issued for a student on scholastic probation or suspension by an institution under the jurisdiction of the State Board of Education shall show the effective date of such action and length of suspension.

CLASS ATTENDANCE REGULATIONS

1. The following minimum class attendance regulations for the colleges and universities under the jurisdiction of the State Board of Education were adopted July 13, 1965, and amended April 3, 1970, to apply only to freshman and sophomore students.

- a. Class attendance is regarded as an obligation as well as a privilege, and all students shall attend regularly and punctually all classes in which they are enrolled. Failure to do so will jeopardize a student's scholastic standing and may lead to immediate suspension from the university.
- b. Each instructor shall check the roll at each class meeting, shall keep a permanent attendance record for each class, and shall report student absences to appropriate college or university officials.
- c. A student shall submit excuses for all class absences to the appropriate officials designated by the president within 3 class days after the student returns to his classes. The appropriate official may excuse a student for being absent.
- d. When a student receives a total of 4 unexcused absences in a given class, he will be dropped from the rolls with a grade of "F." When a student accumulates excessive absences (excused and/or unexcused) in any class, the instructor may recommend to the student's academic dean that he be withdrawn from the rolls of that class and given an appropriate grade.
- e. Tardiness is treated as an absence unless an excuse is obtained from the instructor at the end of the period.

- f. Students who are dropped for excessive absences will not be eligible to re-enter the colleges or university until the expiration of 1 full semester.
 - g. A student whose class load falls below the minimum number of hours required for a regular student, because of his own dropping of a course or because of his exclusion from a class or classes because of excessive absences, will be dropped from the rolls of the university and will be subject to the regulations concerning withdrawal from the university. When a student is dropped from the institution because of class absences, he has the right to appeal to his academic dean.
2. An absence is incurred when a student fails to attend class for any reason. Absences shall be counted in each course, beginning with the date of enrollment in the course as shown in the "Class Record" book.
3. *Reporting Class Absences.* Each instructor shall check the roll at each class meeting and keep a permanent record of each student's attendance in the "Class Record" book.
- a. Instructors of courses in which freshman students are enrolled shall enter the names of all freshman students who are absent on attendance report forms and forward them daily by campus mail to the Attendance Counselor. From these report forms, absences will be posted to the individual attendance records kept by the Attendance Counselor.
 - b. Instructors of courses in which sophomores are enrolled shall report to the Attendance Counselor the name of each sophomore student who is absent if the instructor decides that the absence is not excusable. If a student incurs 3 consecutive absences, the instructor shall notify the Attendance Counselor of this fact in order that the cause may be determined.
4. *Class Absence Approval.*
- a. Freshman students must obtain excuses for class absences from the Attendance Counselor. The Attendance Counselor may approve absence due to confinement in the University Infirmary. However, treatment by Infirmary personnel for minor complaints may not justify class absence approval. At his own discretion, the Attendance Counselor may approve excuses signed by parents or physicians. Any student over 21 years of age may submit his own. Excuses must be submitted to the Attendance Counselor no later than the third day after the student returns to class.
 - b. Sophomore students must obtain excuses for class absences from their instructors.
 - c. Absence due to trips approved by proper authority, or to the performance of special duties at the University shall be excused. On the day following the event, the member of the faculty responsible for the trip or activity will submit to the Attendance Counselor an alphabetical list of those students who participated. Each student who participated, including those in sophomore, junior and senior level classes, shall secure a class absence approval from the Attendance Counselor and present it to the instructor no later than the second class session following the absence. The instructor, upon receiving the class absence approval form, shall record the absence as excused in his "Class Record" book.
 - d. Students absent from class for any reason will be held strictly accountable for the work missed. Each instructor is expected to give the students with excused absences every opportunity within reason to make up the work missed. However, the responsibility for initiating any make-up work rests wholly with the student, who should, whenever possible, make the necessary arrangements before the absence is incurred.

5. *Penalties for Excessive Absences.*

- a. Absences incurred by a student who is in the process of dropping a course, or intending to drop a course, will be recorded as unexcused.
- b. Tardiness will be treated as an absence unless excused by the instructor at the end of the period during which the tardiness occurred. The initiative in obtaining this excuse rests with the student.
- c. In the event a student incurs a total of 3 unexcused absences in a course, the academic dean, parents, adviser, and the student are advised of this fact by the Attendance Counselor. Since it is the student's responsibility to be aware of his class attendance record at all times, failure to receive the notice of 3 unexcused absences does not alter his status. Should the student incur 4 unexcused absences in any course, he is to be dropped from that course with a grade of "F." This procedure is initiated by the Attendance Counselor.
- d. If a student incurs a total of 10 unexcused absences in all classes, the student, his parents, advisers, and academic dean are notified by the Attendance Counselor. Should another unexcused absence be incurred, the Attendance Counselor will notify the academic dean, who will suspend the student with a grade of "F" in each of the courses being pursued.
- e. Students who are suspended for excessive unexcused absences will not be eligible to re-enter the University until the expiration of 1 full semester.
- f. If a student accumulates a number of absences in a course, whether excused or unexcused, that exceeds 3 times the number of scheduled class sessions per week, the academic dean will take action to determine whether the student is to be dismissed from the course or allowed to continue in the course. If the student is dismissed from the course, the dean shall assign him a grade of "W" or "F", depending upon his standing in the class and a consideration of factors pertaining to the absences.

6. *Appeal.* Any student penalized for being absent an excessive number of times may appeal to the Admissions, Credits, and Graduation Sub-Council. This appeal must be presented in writing to the Attendance Counselor within 3 days of the date of the letter of suspension and must outline the basis of the request. The student may also appear before the Sub-Council.

SPECIAL ADMISSION, RETENTION, PROMOTION AND GRADUATION POLICIES

The following statements relating to Admission, Retention, Promotion and Graduation in the College of Nursing, and particularly the terms "probation" and "dismissal" and their derivatives, are not to be construed as in conflict with or superseding policies issued by the State Board of Education. These statements reflect additional requirements of a professional curriculum involving human health and safety.

CRITERIA FOR ADMISSION. Students who indicate Nursing as the choice of major will be registered in the college of Basic Studies during the freshman year.

1. *Admission Without Condition.* Students who meet the following criteria will be admitted to the College of Nursing without condition, at the beginning of the second year.

- a. State of Health: evaluated as good or excellent on the medical record, on information of past health history and on personal record of the applicant during the freshman year.

b. Admission Testing: an ACT composite score of 17 or above.

c. Academic Achievement: at least an over-all C average on a minimum of 30 semester hours during the 1st year at Northwestern and/or at other educational institutions.

2. *Conditional Admission.* Applicant failing to meet 1 or more of the criteria for admission as stated above may be admitted to the College of Nursing on conditional status.

3. *Removal from Conditional Admission Status.* Student admitted conditionally for academic reasons will be removed from conditional status if during the 1st full semester following admission he achieves a C average on all hours pursued. If he fails to do so he will remain on conditional status.

The student on conditional status in his 2nd full semester must achieve a C average on all hours pursued. If he fails to do so he is subject to dismissal from the College of Nursing.

Any student admitted conditionally to the College of Nursing for reasons other than academic will remain in this status until completion of the next full semester. At that time his record will be reviewed and the course of action to be taken will be determined.

CRITERIA FOR RETENTION. Students in the College of Nursing must maintain a 2.0 or C average at all times and consistently demonstrate professional compatibility.

1. *Academic Probationary Status.*

- a. Any student deficient in quality points will be placed on academic probation.
- b. Hours pursued during summer sessions as well as those pursued during regular semesters will be included in determining the cumulative quality point average.
- c. Academic probationary status will continue until such time as the quality point deficiency is removed.
- d. Once on academic probation, the student will not be permitted to proceed in the sequential program of studies if he accrues additional quality point deficiencies.
- e. Any student who earns 2 D's in nursing courses with clinical components will be subject to dismissal from the College of Nursing.

2. *Professional Probationary Status.* In some instances a student may be placed on professional probationary status when the student has demonstrated a lack of professional compatibility. Such a probationary status serves as a warning that the student may be dismissed from the College of Nursing at any time.

Professional compatibility is demonstrated by the student when he consistently:

- a. Reflects application of theoretical knowledge in the nurse-patient relationship, the acquisition of which is demonstrated by written tests; and reflects increasing skill in the care of patients, as measured by observation by the instructor in any practicum.
- b. Demonstrates the ability to relate effectively with peers, patients, and members of the health team.
- c. Demonstrates the ability to fulfill his role as a student in nursing in relation to extra-curricular as well as curricular activities.
- d. Demonstrates personal integrity, emotional stability, and conformance with accepted social mores.

3. *Dismissal from the College of Nursing.* The continuance of each student in the College of Nursing shall be subject to the discretion of the University and the College of Nursing. The College of Nursing may require the withdrawal of a student at any time for any reason deemed sufficient. A student may be dismissed from the College of Nursing when his consistently unsatisfactory performance has revealed the improbability of his meeting the requirements for graduation and subsequent licensure to practice professional nursing. Ordinarily, a student will not be dismissed from the program without previous notice to the student and his parents or guardian of the possibility of such action.

A grade of C is the minimum satisfactory standard of achievement in nursing courses at all times. Withdrawal from the College of Nursing may be required if the student does not maintain a C average in his major, or if he receives an F in any nursing course.

4. *Appeal.* A student in the College of Nursing has the right to appeal any decision regarding his status. This request for appeal is made to the Dean of the College of Nursing who will determine the course of action to be taken.

CRITERIA FOR PROMOTION.

1. *Promotion to the Shreveport Campus.* A student will be unconditionally promoted to the Shreveport Campus who has

- a. Completed all of the freshman and sophomore courses as required by the curricular pattern, with an over-all C average.
- b. Earned at least a C in the introductory nursing course.
- c. Earned at least a C in microbiology.
- d. No more than 1 D in the same subject area, e.g., chemistry, English, or zoology.

Records of students who do not meet the criteria for unconditional promotion to the Shreveport campus will be reviewed to determine the course of action to be taken.

2. *Promotion on the Shreveport Campus.* A student will be unconditionally promoted on the Shreveport campus who has

- a. An over-all C average.
- b. At least a C in all nursing courses.

Records of students who do not meet the above criteria will be reviewed to determine whether the student should be promoted conditionally or if another course of action should be taken.

CRITERIA FOR GRADUATION.

Criteria for graduation from the College of Nursing are:

1. The student must meet the academic requirements as established by the program of studies printed in the University Catalogue and the College of Nursing Bulletin.

2. The student must demonstrate the qualities of professional competence and compatibility as defined by the College of Nursing and demonstrate potential for safe performance as a licensed professional nurse.

STUDENT NAME CHANGE

Students who anticipate a name change shall notify the Dean in writing to ensure accuracy of University records.

ADMISSION OF REGISTERED NURSES

Registered Nurses who are graduates of accredited associate degree or diploma programs may be admitted to the College of Nursing. Nurses seeking admission must be currently registered in at least 1 state and meet the admission requirements of the University and of the College of Nursing. The length of time needed to complete the degree requirements will be determined on an individual basis. Advanced standing in specific nursing courses may be earned on the basis of proficiency examinations established by the College of Nursing. A fee of \$5.00 is charged for each proficiency examination.

STUDENT LIFE

HOUSING AND LIVING ACCOMMODATIONS

ALL APPLICATIONS FOR DORMITORY ROOMS and other on-campus housing, and all inquiries, should be addressed to the Director of Housing, Northwestern State University. Applications may be made at any time. Acceptance of a room deposit and the assignment of a room must not be interpreted as acceptance for admission to the University.

A ROOM DEPOSIT OF \$25 must accompany any application for a dormitory room. Checks or money orders should be made payable to Northwestern State University. *Cash should not be sent by mail.* The room deposit will be held throughout the student's period of residence and will be returned at its end if the room has not been damaged. The deposit will be returned if an application is cancelled at least 30 days prior to the opening of the semester.

THE GENERAL POLICES ON HOUSING on the Northwestern State University campus are based on the philosophy that dormitory living is a part of the total educational function of the institution in providing the best education for the individual. The State Board of Education recognized and emphasized this in November, 1969, in adopting a policy of parietal rules for all colleges and universities under its jurisdiction.

THE POLICIES which govern the management and operation of campus housing facilities are:

1. All unmarried undergraduate students must live in campus dormitories. Exceptions to this policy are made for those students who present convincing evidence that substantial hardship for financial, medical, or other sound reason will occur if the policy is enforced.

Applications for exemptions from the on-campus residence hall requirement must be made in writing to the Dean of Students no later than 2 weeks prior to the beginning of the semester. The student will be notified in writing of the decision rendered by the Dean of Students. Request forms are available in the office of the Director of Housing. Any student who has applied for and been denied an exemption from the on-campus residence requirement shall have the right to appeal such decision in accordance with the provisions and administrative procedures authorized and established pursuant to the authority of Act 59 of 1969. (L.R.S. 17:3101.)

2. Campus housing may be made available to residents of Natchitoches and vicinity only after other Louisiana residents have been accommodated.

3. Louisiana residents are given preference over non-residents in the assignment of campus housing.

4. Rental rates on all campus housing facilities are subject to change without notice.

5. Campus housing accommodations may be denied, cancelled, or changed at the discretion of the University. The University reserves the right to enter and inspect any campus residence room or space at any time.

Roommate requests will be honored. Such requests can be accommodated more easily if the students concerned indicate their preference on their room applications; submit applications and pay room deposits at the same time; and check into the assigned dormitory together.

ON-CAMPUS HOUSING FOR MEN. Dormitories for men include Bossier, East Caspari, West Caspari, Natchitoches, North, Prudhomme, Rapides, South, and West halls. East Caspari is used for housing only male graduate students. Rooms in Bossier, Caspari, Natchitoches, Prudhomme, and Rapides halls (air-conditioned) rent for \$160 per student per semester (\$80 per summer session). All other rooms rent for \$140 per student per semester (\$70 per summer session).

ON-CAMPUS HOUSING FOR WOMEN. Dormitories for women include Audubon, Caddo, Carondelet, Louisiana, Morris, Sabine, and Varnado halls. Accommodations consist of double and triple rooms, some of which are arranged in suites.

Rooms in Caddo, Louisiana, Sabine, and Varnado halls (air-conditioned) rent for \$160 per student per semester (\$80 per summer session). All other rooms rent for \$140 per student per semester (\$70 per summer session).

ON-CAMPUS HOUSING FOR MARRIED STUDENTS. The University maintains 64 on-campus apartments for married student couples. A couple is permitted to occupy an apartment only if the husband is a full-time student.

A deposit of \$25 is required before an assignment to an apartment can be made. This deposit is returned if the reservation is cancelled at least 30 days prior to the expected date of occupancy, or at the time the apartment is vacated, after adequate notice, provided no damage has been done to the apartment.

Apartments in frame buildings rent for \$30 (1-bedroom) and \$37.50 (2-bedroom) per month. Apartments in brick buildings rent for \$50 (medium) and \$60 (large) per month. All rent is payable in advance on the first of the month. Failure to clear an account within 2 weeks may result in dismissal from the University.

Furniture provided in most apartments include only a circulating heater and kitchen range. Occupants must provide all other items. Each apartment is separately metered for gas and electricity; tenants are responsible for making their own arrangements for these utilities with Central Louisiana Electric Company and the City of Natchitoches. Water is furnished by the University without charge.

EXPENSES

ENROLLMENT FEES. At the time of registration in any regular semester or summer session, each full-time student must pay the following fees:

1. Registration fee (\$100 each semester; \$50 each summer session).
2. Student Government Association fee (\$15.50 fall semester; \$8.50 spring semester; \$5.75 summer session).
3. Student Union fee (\$7.00 each semester; \$3.50 each summer session).
4. Building Use fee (\$10 each semester; \$5 each summer session).

Part-time graduate and undergraduate students enrolled in regular classes on Natchitoches campus evening and Saturday classes must pay a minimum registration fee of \$30 and an additional \$10 for each semester hour of credit above 3 hours to a maximum of \$100 in each regular semester and summer session. They must also pay Student Union and Building Use fees. Fees for courses offered through the Division of Continuing Education vary according to site.

Holders of honors scholarships who maintain satisfactory scholastic records are exempted from payment of part of the registration fee (\$20 in a regular semester; \$10 in a summer session).

TUITION. Tuition is free in all departments except Music. Non-music majors are charged \$30 per semester for 1 1-hour private lesson per week and \$15 for 1 half-hour private lesson per week. They must also pay a fee of \$5 per semester for renting a practice room 1 hour a day and \$2 for each additional hour. There are no special charges for music majors.

OUT-OF-STATE TUITION. All undergraduate students whose parents or court-appointed guardians do not maintain their residence in Louisiana must pay an out-of-state tuition fee of \$315 per semester and \$157.50 per summer session. All graduate students whose parents or court-appointed legal guardians do not maintain their residence in Louisiana are required to pay an out-of-state tuition fee of \$100 per semester and \$50 per summer session.

By resolution of the Louisiana State Board of Education, students from Arkansas, Mississippi and Texas will pay an out-of-state tuition equal to that charged to Louisiana students at the respective state universities of each state.

Persons on student visas from foreign countries are required to pay the out-of-state tuition fees.

ROOM RATES. Detailed information on student housing, including rental rates, is given in the preceding section titled "Housing and Living Accommodations."

FOOD SERVICE. All dormitory residents, except seniors and graduate students, are required to purchase 7-day meal tickets (\$220 per semester; \$110 per summer session). Meal tickets may be purchased by seniors and graduate students living in dormitories if they wish to do so. Meal tickets purchased by seniors and graduate students must be continued for the entire semester or summer session.

INFIRMARY. All dormitory residents must pay Infirmary fees (\$15 per semester; \$7.50 per summer session). Full-time students residing elsewhere may secure Infirmary services by paying the fee. The fee covers use of the University Infirmary and routine medication.

STUDENT ACCIDENT AND SICKNESS INSURANCE. All full-time undergraduate students must purchase student and accident insurance (\$9.25 fall semester; \$9.25 spring semester; \$4.25 summer session).

TEXTBOOKS. All textbooks used in University courses are on sale at the NSU Bookstore located in the Student Union. New books are sold at the publisher's list price. Used books are sold at 75% of the publisher's list price.

Under certain conditions, the Bookstore may re-purchase texts. Only books to be used again as texts and considered usable by the Bookstore Manager will be re-purchased. Books will be re-purchased at 50% of the publisher's list price.

The books of students who resign or drop a course during the first 2 weeks of a regular semester or the first week of a summer session will be re-purchased at the price for which they will be re-sold, provided that (1) Bookstore pricing or coding has not been altered or defaced, (2) the book is used in a course in which the student is enrolled as verified by his dean, and (3) the student presents the cash register receipt received at the time of purchase. This policy applies to paperbacked books unmarked in any fashion.

The books of students who resign or drop a course after the first 2 weeks of a regular semester or the first week of a summer session will be re-purchased at 50% of the publisher's list price, provided that (1) Bookstore pricing or coding has not been altered or defaced, and (2) the book is used in a course in which the student is enrolled as verified by his dean.

If a student is required to drop a course for the convenience of the University, his book will be re-purchased at the price he paid for it.

The following books will not be re-purchased by the Bookstore: (1) those not to be used again as texts, (2) those not considered usable by the Bookstore Manager, (3) those used in 500 or higher level courses, (4) those used in courses offered only once every 2 years or less frequently, and (5) paper-backed books. In a few instances books used in certain courses will not be re-purchased at the specific request of the departments offering the courses.

MILITARY SCIENCE DEPOSIT. An annual deposit of \$10 is made by each student enrolled in ROTC. Five dollars of this deposit is placed in the ROTC Activity Fund. The balance is returnable at the end of the year or at the time of withdrawal, provided all issue equipment and clothing is returned in satisfactory condition. If damage to these items exceeds \$5, the additional amount will be collected from the student prior to his clearance from the University.

GRADUATION FEES. Diploma fee, \$5. Candidates for bachelor's degrees pay a cap and gown fee of \$4 and an Alumni Association fee of \$1. Candidates for advanced degrees must order caps, gowns and hoods through the Student Union Information Office, Room 211. Orders must be placed by mid-term of the semester or summer session in which the degree is to be awarded.

PARKING FEE. Any student who operates an automobile on the campus between the hours of 7:00 a.m. and 4:00 p.m. must pay a parking fee of \$2.50 per car per semester (\$1.25 per car in summer session). All such vehicles must be registered and fee paid at the Campus Security office within 24 hours after arrival.

ESTIMATED EXPENSES for a student living on-campus are as follows:

<i>Living Expenses:</i>	<i>Fall Semester</i>	<i>Spring Semester</i>	<i>Summer Session</i>
Room	\$140.00-\$160.00	\$140.00-\$160.00	\$ 70.00-\$ 80.00
Board	220.00	220.00	110.00
Infirmary	15.00	15.00	7.50
	\$375.00-\$395.00	\$375.00-\$395.00	\$187.50-\$197.50

School Expenses:

Registration	\$100.00	\$100.00	\$ 50.00
SGA Fee	15.50	8.50	5.75
Insurance	9.25	9.25	4.25
Book Costs (est)	80.00	80.00	40.00
Student Union Fee	7.00	7.00	3.50
Building Use Fee	10.00	10.00	5.00
Parking Fee	2.50	2.50	1.25
	\$224.25	\$217.25	\$109.75

Total Estimated Expenses: \$599.25-\$619.25 \$592.25-\$612.25 \$297.25-\$307.25

UNIFORMS. The cost of the uniforms is approximately \$50.00. Deposit of \$15.00 is required when the student places an order for uniforms.

PAYMENT OF FEES AND CHARGES. Full payment must be made at the time of registration for all charges listed above under School Expenses and the Infirmary fee.

Students living on campus may pay in advance for rooms and meal tickets, or in 4 installments, the first payable at registration. A student is allowed a period of 1 week from the due date of each payment in which to clear his account. Failure to do so may result in dismissal from the University. Students are expected to assume the responsibility for prompt payment of all charges; the University will not send statements of payments due.

Students living off-campus must pay in full at registration.

Graduate students and seniors who do not purchase meal tickets must pay in full at registration.

REFUNDS. General registration fees and out-of-state tuition fees are not refundable. Student Government Association fees and fees for evening and Saturday classes may be refunded during the registration period.

If a student resigns from the University, refunds will be made on room, meal ticket, and infirmary charges on a pro-rata basis from the effective date of withdrawal.

FINES AND PENALTIES

LATE-REGISTRATION FEE. Any student who registers after the close of the official registration period is charged a late-registration fee of \$10. In unusual circumstances, the dean of the college in which the student is registered may exempt him from payment of the fee.

LIBRARY FINES. Nominal fines are imposed on students who fail to return Library books when they become due or who damage books or other materials. Fines are due and payable on notice.

CHECKS RETURNED UNPAID. The penalty for each returned unpaid check is \$2 for each period of 5 calendar days, with a maximum penalty of \$6. The penalty payment period begins on the first day after notice has been mailed to the school address given by the student. If redemption, plus penalty, is not made by the close of office hours within 15 calendar days after notice is mailed, the student may be dismissed from the University.

SHREVEPORT CAMPUS

The Shreveport Campus is located at 1800 Warrington Place, Shreveport, Louisiana (71101). The location is near the intersection of Line Avenue and Margaret Place immediately south of the T. E. Schumpert Memorial Hospital. The University building is a newly constructed air conditioned facility, consisting of dormitory rooms, offices for faculty and administrators, lecture rooms, classrooms and conference rooms, library and recreational areas.

The attractively furnished building has two sections, one of two stories devoted to academic affairs and a four story section for dormitory area. Included in the dormitory area is a formal living room, and a recreational area. The recreation room is equipped with billiard table and color television. Lounges and kitchenettes are located on each floor of the dormitory section.

Students spend the first 2 years on the Natchitoches campus and the last 2 years on the Shreveport campus where educational and living facilities are maintained.

Clinical experiences are provided in the following hospitals and agencies with which the University has contractual agreements: T. E. Schumpert Memorial Hospital, Veteran's Administration Hospital, Confederate Memorial Medical Center, Willis-Knighton Memorial Hospital, and the Caddo-Shreveport and Bossier Parish Health Units of the State Department of Health. In addition, other agencies are utilized during specific courses to enhance the educational experiences of students.

Also housed in the Shreveport Campus building are the University's classes from the Division of Continuing Education. Graduate and undergraduate classes are offered each semester in response to the needs of the residents of the Shreveport-Bossier area.

In addition to student sponsored social activities, Shreveport offers many cultural, educational and social opportunities. Churches of all religions are available for individual worship. Opera, drama, band concerts, symphonies, art galleries, and the Louisiana State Exhibit Museum are among the varied cultural offerings. Cross Lake and Caddo Lake offer excellent locations for picnics, swimming, skiing and other recreational activities.

FINANCIAL ASSISTANCE STATEMENT

(From Dean Ledbetter)

A variety of financial assistance programs are available from the University and the student is referred to the University Catalogue for specific information. In addition, certain other funds are disbursed in behalf of the College of Nursing. For information and application, write: Director of Financial Aid, Northwestern State University, Natchitoches, Louisiana 71457.

Federal Traineeships under the Nurse Training Act are available to registered nurse students during the final twelve months of enrollment.

A number of scholarships are available to nursing majors and for information on these and Federal Traineeships, write: Dean of the College of Nursing, Northwestern State University, Natchitoches, Louisiana 71457.

Current scholarships include:

SCHOLARSHIPS

Allstate Foundation

Applicants should apply to the Dean, College of Nursing, Northwestern State University. Second semester sophomores should apply for the Junior year.

American Business Women's Association — Or-Noir Chapter

Application should be made to the Dean, College of Nursing, Northwestern State University. Applicants must be in good standing and recommendation is made by the Dean.

American Legion 40/8 Nursing Program

Requirements include that residence must be in the Eighth Congressional District and the student must be in good standing with the University.

Downtown Kiwanis Club of Baton Rouge

Applicants, who are recommended by the Dean, College of Nursing, Northwestern State University, are chosen on a basis of need and must be in good standing with the University.

East Baton Rouge Medical Auxiliary

Applicant must be a resident of East Baton Rouge Parish and be an incoming student for the freshman academic year. A "B" average from high school is a requirement. Applications should be made directly to East Baton Rouge Medical Auxiliary Scholarship Fund.

Oakdale Hospital Women's Auxiliary Scholarship

Applicant must apply and be accepted by the College of Nursing before applying to the President of the Women's Hospital Auxiliary.

Peacock Surgical Company Nursing Scholarship

Application should be made directly to the Dean, College of Nursing, Northwestern State University. This scholarship is limited to junior and senior students.

Walter C. Teagle Nursing Scholarship

Sons or daughters of employees of Standard Oil Company are eligible for application of the Walter C. Teagle Nursing Scholarship. Applicants must apply and be accepted by the institution of their choice before applying directly to the President of the employing company.

Zonta Award

High school seniors who evidence potential are eligible to apply for this four year award. Application may be made to District X, Governor, 726 Delaware Street, Shreveport, Louisiana 71106.

POLICY ON EMPLOYMENT OF NURSING MAJORS

All nursing majors who wish to be employed in any capacity must secure written permission each semester from the Dean of the College of Nursing. Students on the Shreveport Campus shall submit requests for permission to be employed to the Assistant to the Dean.

The request for permission to be employed shall include:

1. the name and address of the employer.
2. the type and/or title of the position.
3. the hours of employment each week.
4. the expected duration of this employment.

Professional nursing is a service to the public and is subject to legal regulation by the state. Louisiana has a mandatory licensure law which prohibits the practice of nursing except by those holding current licensure. Licensed practical nurses and registered nurses who are majoring in nursing and who are employed in nursing service positions are subject to the laws governing their practice. No student (except licensed practical nurses and registered nurses) may be employed for compensation in any nursing capacity except as described below.

A student may be employed in nursing service:

1. only in the capacity of a nurse aide, orderly, or ward clerk, in the appropriate dress for that position in that particular agency. The College of Nursing uniform is never to be worn during employment.
2. to perform only such nursing procedures as performed by aides, orderlies, or ward clerks in that agency.
3. to take no part in the administration of medications, sterile or complex procedures, charting on official records, or the assumption of direct nursing service responsibilities.

4. contingent upon the assurance that there will be graduate professional nurse supervision in the immediate work unit if employment is in a hospital.

Students who violate the above policies may be dismissed from the College of Nursing.

If, in the opinion of the faculty, a student's employment is, in any significant way, impinging upon his performance as a nursing major, he shall be directed to alter or discontinue the employment, or resign from the College of Nursing.

ORGANIZATIONS AND STUDENT ACTIVITIES

The opportunity to participate in religious, social, recreational, and scholastic activities is available to all students. Some organizations have automatic membership upon enrollment in the University. Student organizations on the Shreveport Campus have faculty advisers.

Freshman and sophomore nursing majors may choose to become members of the National Student Nurse Association, Louisiana Association of Student Nurses, and Northwestern Student Nurse Association. Students on the Shreveport Campus enrolled in the College of Nursing are required to become members of these organizations.

Elected officers of the Associated Women Students act as a special council to carry out the disciplinary action for infraction of rules. Also, information regarding student activities on the Natchitoches Campus is channeled through these officers.

Eligibility for Extra-Curricular Activities.

A. A full-time student who has maintained a C average is eligible for participation in extra-curricular activities.

B. No student shall make a public appearance in any extra-curricular activity until this appearance has been cleared by the Director of the Shreveport Campus or the Dean of the College of Nursing.

REQUIREMENTS FOR THE BACHELOR'S DEGREE

A. *General Requirements.* 1. A minimum of 124 semester hours of academic work exclusive of physical education activity and extra-curricular activity credits. 2. The senior year in residence. 3. A minimum of 30 semester hours in residence. 4. Two quality points (an average grade of C) for each semester hour of credit pursued, including a C average in the major field. Even though a student may have earned some of his credits at other institutions, he still must achieve the minimum average grade of C on credits earned at Northwestern State University.

B. *Core Requirements.* 1. Twelve semester hours in the general field of English. 2. Three semester hours in mathematics. 3. Twelve semester hours in science, 6 in biology and 6 in physical science. 4. Thirteen semester hours in social science, including Political Science 450. 5. Three semester hours in psychology. 6. Two physical activity credits, including P.E. 1. 7. Orientation.

C. *Professional Education Requirements (61 Hours).* Required for the nursing major: Nursing 104, 308, 309, 309Z, 313, 313Z, 323, 323Z, 328, 335, 420, 420Z, 433, 433Z, 442, 446, 446Z, 447, 447Z.

CURRICULUM (451)

FRESHMAN YEAR

<i>First Semester</i>	<i>Sem. Hrs.</i>	<i>Second Semester</i>	<i>Sem. Hrs.</i>
Chemistry 107-107L	4	Chemistry 108	3
English 101	3	English 102	3
Mathematics 103 or 105	3	Home Economics 103	3
Psychology 101	3	Psychology 205	3
Zoology 122-122L	4	Speech 101	3
Orientation	1	Zoology 123-123L	3
	<u>18</u>		<u>18</u>

SOPHOMORE YEAR

Nursing 104	3	Microbiology 206-206L	4
English literature	3	Philosophy 201	3
History or political science	3	Political Science 450	1
Physics 111	3	Psychology 445	3
Sociology 201	3	Sociology 405	3
Physical education	1	Physical education	1
	<u>16</u>		<u>15</u>

Summer Session

Nursing 308	3
Nursing 309 - 309Z	6
	<u>9</u>

JUNIOR YEAR

Nursing 313 - 313Z	9	Nursing 323 - 323Z	9
Nursing 328	3	Nursing 335	3
	<u>12</u>		<u>12</u>

SENIOR YEAR

Nursing 420 - 420Z	6	Nursing 442	2
Nursing 433 - 433Z	6	Nursing 446 - 446Z	6
	<u>12</u>	Nursing 447 - 447Z	6
			<u>14</u>

Total hours for degree—126

General Education	64
Nursing	62

COURSES IN PROFESSIONAL NURSING

104. INTRODUCTION TO PROFESSIONAL NURSING. 3 hours. Theoretical and philosophical approach to professional nursing; emphasis on developing an understanding of social, economic, and professional responsibilities of the nurse.

308. MEDICAL SCIENCE. 3 hours. Fundamental pathological processes occurring in man; introduction to diagnosis and treatment.

309. FUNDAMENTALS OF NURSING. 6 hours. Designed to develop an understanding of fundamental nursing activities. Corequisite: Registration in 309Z.

309Z. FUNDAMENTALS OF NURSING LABORATORY. Credit only. Supervised laboratory practice to augment Nursing 309.

313. MATERNAL-CHILD NURSING. 9 hours. Designed to develop an understanding of the nursing care of mothers and children. Corequisite: Registration in 313Z.

313Z. MATERNAL-CHILD NURSING LABORATORY. Credit only. Supervised laboratory practice to augment Nursing 313.

323. MEDICAL-SURGICAL NURSING. 9 hours. Designed to develop an understanding of nursing care of adults with medical-surgical conditions. Corequisite: Registration in 323Z.

323Z. MEDICAL-SURGICAL NURSING LABORATORY. Credit only. Supervised laboratory practice to augment Nursing 323.

328. AN HISTORICAL PERSPECTIVE OF TRENDS IN PROFESSIONAL NURSING. 3 hours. Trends and development of nursing within the context of historical periods; emphasis on the individual's responsibility to the profession and to the community.

335. ETHICS. 3 hours. Philosophical principles of ethics as they apply to professional nursing practice.

420. PSYCHIATRIC NURSING. 6 hours. Dynamic and pathologic aspects of mental disorders; emphasis on psychiatric nursing principles and therapeutic interpersonal techniques utilized in the care of the emotionally disturbed. Corequisite: Registration in 420Z.

420Z. PSYCHIATRIC NURSING LABORATORY. Credit only. Supervised laboratory practice to augment 420.

433. PUBLIC HEALTH NURSING. 6 hours. Introduction to public health services; emphasis on the nurse's role in a community health program. Corequisite: Registration in 433Z.

433Z. PUBLIC HEALTH NURSING LABORATORY. Credit only. Supervised laboratory practice to augment 433.

442. INTRODUCTION TO RESEARCH IN NURSING. 2 hours. Introduction to research in nursing including components of research design; emphasis on developing the ability to critically read and evaluate research reports in nursing.

446. LEADERSHIP IN NURSING. 6 hours. Principles basic to effective leadership in professional nursing; emphasis on planning, organizing, and implementing nursing care for a group of patients utilizing administrative principles. Corequisite: Registration in 446Z.

446Z. LEADERSHIP IN NURSING LABORATORY. Credit only. Supervised laboratory practice to augment 446.

447. **ADVANCED NURSING.** 6 hours. Analysis of complex problems related to the care of adults and/or children with chronic or acute illness. Assists the students to use previous background and/or new knowledge in a comprehensive application of principles of nursing. Corequisite: Registration in 447Z.

447Z. **ADVANCED NURSING LABORATORY.** Credit only. Supervised laboratory practice to augment 447.

COURSES IN GENERAL EDUCATION

CHEM. 107. **GENERAL CHEMISTRY.** 3 hours. Principles of Chemistry including the structure of the atom, valence, and bonding; significance of the formula and equations; elementary molecular explanations for behavior of gases, liquids, and solids; properties of selected elements and their compounds. Designed for students planning to terminate their study of chemistry with 107 or 108. Prerequisites: Registration in or credit for 107L; satisfactory entrance test score or credit in Math 103, 105 or 116. (Formerly 103B.)

CHEM. 107L. **GENERAL CHEMISTRY LABORATORY.** 1 hour. Experiments in general chemistry. Laboratory 2 hours. Prerequisite: Registration in or credit for 107.

CHEM. 108. **INTRODUCTORY ORGANIC AND BIOCHEMISTRY.** 3 hours. Chemistry of carbon compounds with emphasis on reactions and compounds of importance to life processes. Prerequisite: 103—103L or 107—107L.

ENGL. 101. **COMPOSITION AND RHETORIC I.** 3 hours. The short paper; a study of rhetoric with analysis of reading selections.

ENGL. 102. **COMPOSITION AND RHETORIC II.** 3 hours. Writing the research article and other fairly long papers; study of rhetoric, diction, and style; analysis and interpretation of collateral readings.

ENGLISH LITERATURE. 3 hours to be elected.

HIST. OR GOVT. 3 hours to be elected.

H.EC. 103. **BASIC NUTRITION.** 3 hours. Fundamental principles of human nutrition with application to health and physical fitness.

MATH. Any General Math or Algebra. 3 hours.

MICRO. 206. **INTRODUCTORY MICROBIOLOGY.** 2 hours. Bacteria, viruses and other single-celled microorganisms; structure, growth, and relationships to man, animals, and plants. For students not planning to take other courses in microbiology. Prerequisite: Registration in or credit for 206L; 1 semester of biology; 2 semesters of chemistry.

MICRO. 206L. **INTRODUCTORY MICROBIOLOGY LABORATORY.** 2 hours. Laboratory 4 hours. Prerequisite: Registration in or credit for 206.

ORIENTATION. 1 hour. A course designed to help new students adjust to college life—academically, socially, and vocationally. Emphasizes student regulations and requirements, basic study skills, and development of a sound philosophy of life.

PHIL. 201. **INTRODUCTION TO PHILOSOPHY.** 3 hours. Themes, attitudes, and problems present in the work of leading philosophers. Prerequisite: Sophomore standing.

P.E. 1. **BEGINNERS SWIMMING.** 1 hour. May be by-passed upon the successful completion of a proficiency examination.

PHYSICS III. BASIC CONCEPTS OF PHYSICS. 3 hours. A descriptive survey relating the historical development of man's discovery of the Physical Laws governing the universe to his use of this knowledge then, now and in the future.

POL. SCI. 450. AMERICANISM AND COMMUNISM. 1 hour. Origins and development of Americanism and Communism; analysis and comparison of the 2 systems.

PSY. 101. GENERAL PSYCHOLOGY. 3 hours. Principles of psychology with special attention to human behavior; the shaping of behavior and personality by interaction between the individual and the environment.

PSY. 205. DEVELOPMENT PSYCHOLOGY. 3 hours. Physical, mental, social and emotional development of the individual throughout life; emphasis on understanding human dynamics with respect to self and others. Prerequisite: 101 or Educational Psychology 201. (Formerly 305.)

PSY. 445. ABNORMAL PSYCHOLOGY. 3 hours. Nature and etiology of the most common deviant mental and emotional conditions, with particular emphasis on their various potentials for rehabilitation, readjustment, and learning. Prerequisite: 101 or Educational Psychology 201.

SOC. 101. PRINCIPLES OF SOCIOLOGY. 3 hours. Human social relationships and social processes; emphasis on the functioning of familial, recreational, religious, economic, political and other social groups in contemporary society. Prerequisite: Sophomore standing. (Formerly 201.)

SOC. 405. MODERN MARRIAGES AND FAMILY LIFE. 3 hours. Organization and disorganization of the modern family; emphasis on necessary information, skills, and attitudes for successful marriage and family life. Prerequisite: Junior standing or consent of instructor.

SPCH. 101. FUNDAMENTALS OF SPEECH. 3 hours. Development of desirable habits for normal speech situations; training in effective use of voice, oral languages, and bodily actions; basic principles of speech composition.

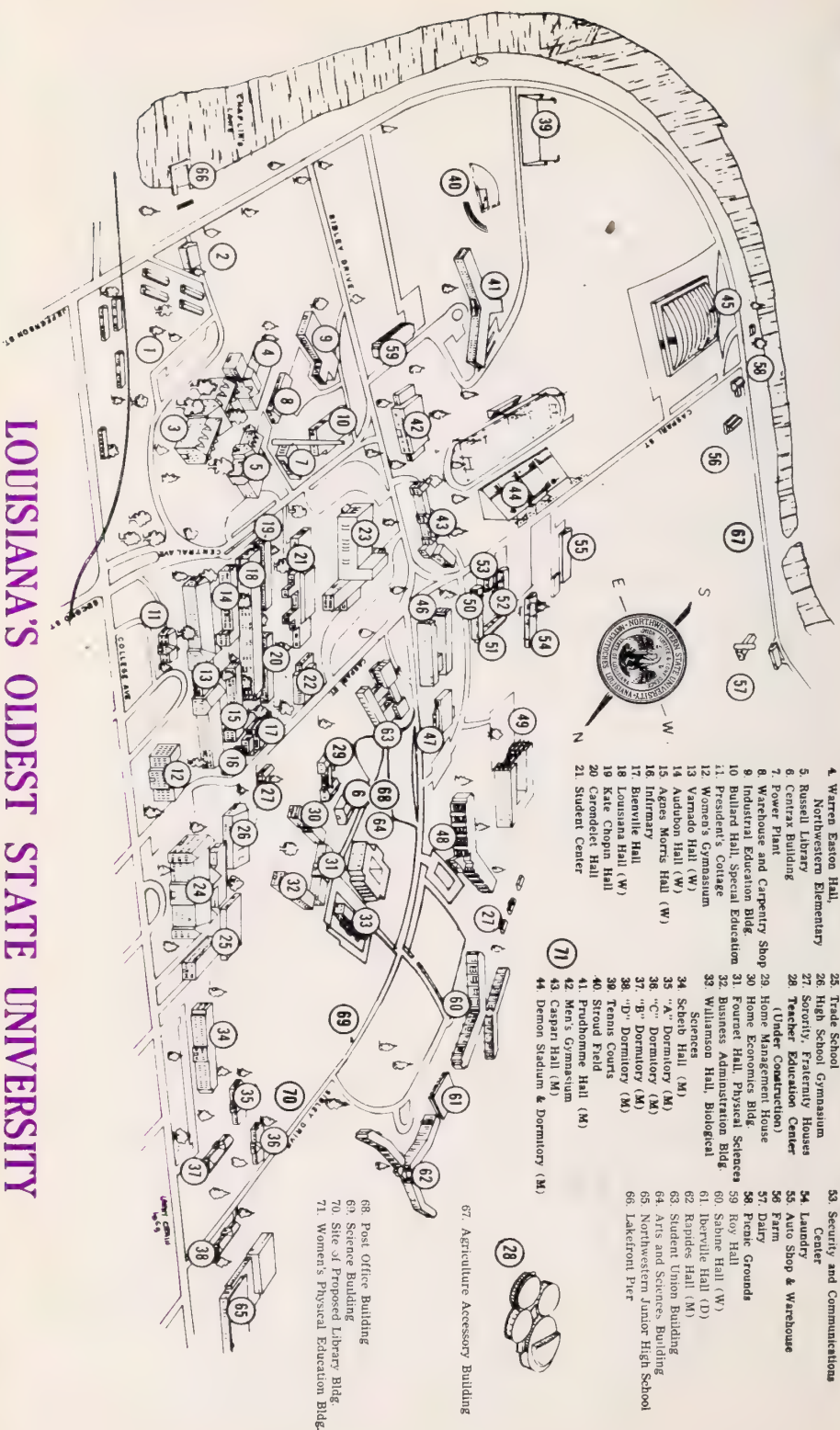
ZOOL. 122. HUMAN ANATOMY. 3 hours. Gross structure of the human body with emphasis on clinical aspects. Prerequisite: Registration in or credit for 122L.

ZOOL. 122L. HUMAN ANATOMY LABORATORY. 1 hour. Laboratory. 2 hours. Prerequisite: Registration in or credit for 122.

ZOOL. 123. HUMAN PHYSIOLOGY. 2 hours. Function of the human body. Prerequisite: Registration in or credit for 123L.

ZOOL. 123L. HUMAN PHYSIOLOGY LABORATORY. 1 hour. Laboratory. 2 hours. Prerequisite: Registration in or credit for 123.

NORTHEASTERN STATE UNIVERSITY



LOUISIANA'S OLDEST STATE UNIVERSITY

21. Art's Laboratory
22. Women's Dormitory
23. Dining Facility

1. Married Housing
2. ROTC Army
3. Caldwell Hall
4. Warren Easton Hall
5. Northwestern Elementary
6. Russell Library
7. Power Plant
8. Warehouse and Carpentry Shop
9. Industrial Education Bldg.
10. Bulard Hall, Special Education
11. President's Cottage
12. Women's Gymnasium
13. Varnado Hall (W)
14. Audouon Hall (W)
15. Agnes Morris Hall (W)
16. Infirmary Hall
17. Bennett Hall
18. Lousiana Hall (W)
19. Ketchikan Hall
20. Carondelet Hall
21. Student Center

22. Neom Natatorium
23. Fine Arts Bldg., Music
24. High School
25. Trade School
26. High School Gymnasium
27. Sorority, Fraternity Houses
28. Teacher Education Center (Under Construction)
29. Home Management House
30. Home Economics Bldg.
31. Fournet Hall, Physical Sciences
32. Business Administration Bldg.
33. Williamson Hall, Biological
34. Scheb Hall (M)
35. "A" Dormitory (M)
36. "C" Dormitory (M)
37. "B" Dormitory (M)
38. "D" Dormitory (M)
39. Tennis Courts
40. Stroud Field
41. Prudhomme Hall (M)
42. Men's Gymnasium
43. Caspar Hall (M)
44. Demon Stadium & Dormitory (M)

47. St. Denis Hall (D)
48. Caddo Hall (W)
49. Bosier Hall (M)
50. North Hall (M)
51. West Hall (M)
52. South Hall (M)
53. Security and Communications Center
54. Laundry
55. Auto Shop & Warehouse
56. Farm
57. Dairy
58. Picnic Grounds
59. Roy Hall
60. Sabine Hall (W)
61. Iberville Hall (D)
62. Rapides Hall (D)
63. Student Union Building
64. Arts and Sciences Building
65. Northwestern Junior High School
66. Lakelront Pier



67. Agriculture Accessory Building

68. Post Office Building
69. Science Building
70. Site of Proposed Library Bldg.
71. Women's Physical Education Bldg.

LIBRARY USE ONLY

